

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No.  
BIA-EDA-2OG0005608

6. If Indian, Allottee or Tribe Name  
ute Indian Tribe

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
# 7-16-36 BTR

9. API Well No.  
Pending 43-013-34033

10. Field and Pool, or Exploratory  
Altamont Cedar Run so

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 16, T3S, R6W U.S.B.&M.

SWNE

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator Bill Barrett Corporation

3a. Address 1099 18th Street, Suite 2300, Denver, CO  
80202

3b. Phone No. (include area code)  
(303) 312-8546

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1679' FNL x 1390' FEL, Sec. 16, T3S, R6W

At proposed prod. zone 1679' FNL x 1390' FEL, Sec. 16, T3S, R6W

14. Distance in miles and direction from nearest town or post office\*  
Approximately 12.65 miles northwest of Duchesne, UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
1390' FEL

16. No. of acres in lease  
N/A

17. Spacing Unit dedicated to this well  
640

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.  
1,300' abandon oil well

19. Proposed Depth  
10,717'

20. BLM/BIA Bond No. on file  
Nationwide Bond # WYB000040

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6298' Ungraded Ground

22. Approximate date work will start\*  
03/01/2009

23. Estimated duration  
45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature *Reed Haddock*

Name (Printed/Typed)  
Reed Haddock

Date  
11/07/2008

Title  
Permit Analyst

Approved by (Signature) *Bradley G. Hill*

Name (Printed/Typed)  
BRADLEY G. HILL  
Office  
ENVIRONMENTAL MANAGER

Date  
05-03-10

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

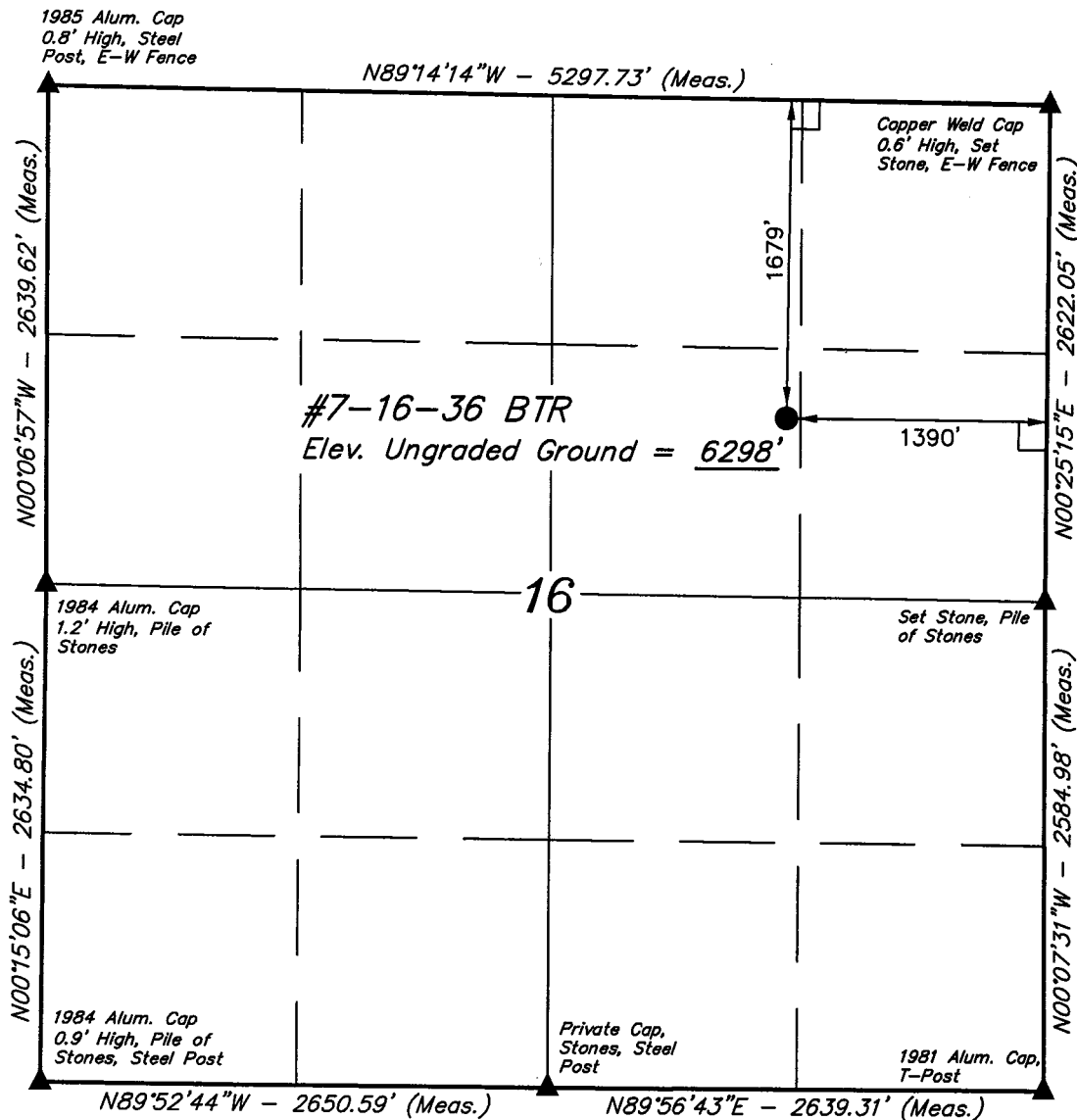
\*(Instructions on page 2)

537179X  
4452335Y  
40.222510  
-110.563028

Federal Approval of this  
Action is Necessary

RECEIVED  
NOV 12 2008  
DIV. OF OIL, GAS & MINING

T3S, R6W, U.S.B.&M.



**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 40°13'19.94" (40.222206)  
 LONGITUDE = 110°33'49.91" (110.563864)  
 (NAD 27)  
 LATITUDE = 40°13'20.10" (40.222250)  
 LONGITUDE = 110°33'47.34" (110.563150)

**BILL BARRETT CORPORATION**

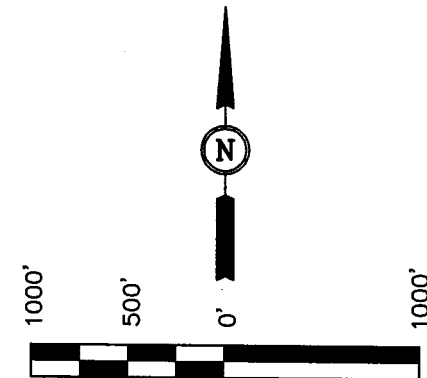
Well location, #7-16-36 BTR, located as shown in the SW 1/4 NE 1/4 of Section 16, T3S, R6W, U.S.B.&M., Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 36, T3S, R6W, U.S.B.&M., TAKEN FROM THE RABBIT GULCH QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5904 FEET.

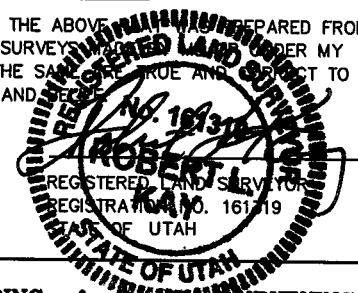
**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**SCALE  
CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS AND WAS UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

|                         |                                  |                         |
|-------------------------|----------------------------------|-------------------------|
| SCALE<br>1" = 1000'     | DATE SURVEYED:<br>10-03-08       | DATE DRAWN:<br>10-15-08 |
| PARTY<br>D.R. A.H. S.L. | REFERENCES<br>G.L.O. PLAT        |                         |
| WEATHER<br>COOL         | FILE<br>BILL BARRETT CORPORATION |                         |

**EASEMENT LEASE AGREEMENT  
BILL BARRETT CORPORATION  
FOR WELLSITES #4-26-36 BTR, #16-21-36 BTR, #14-21-36 BTR, #7-16-36 BTR  
and their Supporting Roads and Pipelines  
RABBIT GULCH UNIT of the TABBY MOUNTAIN WILDLIFE MANAGEMENT  
AREA**

UDWR Easement Lease No. DUC-0910EA-055

THIS NON-EXCLUSIVE EASEMENT LEASE AGREEMENT ("Agreement") is made by and between the **Utah Division of Wildlife Resources** whose address is 1594 West North Temple, Suite 2110, Salt Lake City, Utah 84114-6301 (hereafter "**Surface Owner**") and **Bill Barrett Corporation**, whose address is 1099 18th Street, Suite 2300, Denver, Colorado 80202 (hereafter "**BBC**"). Surface Owner and BBC are collectively referred to as "**the Parties**". "Easement Lease" means the lease of an easement or right-of-way, for which the purpose, specific use, rights granted, location, term, fees, and other conditions are set forth herein.

**EXHIBITS**

- A.1 Legal Description of Wellsite #4-26-36 BTR Surface Use Area, Access Road and Pipeline Corridor
- A.2 Depiction of Wellsite #4-26-36-BTR Surface Use Area, Access Road and Pipeline
- B.1 Legal Description of Wellsite #16-21-36 BTR Surface Use Area, Access Road and Pipeline
- B.2 Depiction of Wellsite #16-21-36 BTR Surface Use Area, Access Road and Pipeline
- C.1 Legal Description of Wellsite #14-21-36 BTR Surface Use Area, Access Road and Pipeline
- C.2 Depiction of Wellsite #14-21-36 BTR Surface Use Area and Access Road
- C.3 Depiction of Pipeline for Wellsite #14-21-36 BTR
- D.1 Legal Description of Wellsite #7-16-36- BTR Surface Use Area, and Access Road
- D.2 Depiction of Wellsite #7-16-36- BTR Surface Use Area, and Access Road
- D.3 Legal Description of Pipeline for Wellsite #7-16-36- BTR
- D.4 Depiction of Pipeline for Wellsite #7-16-36- BTR
- E Surface Use Plan
- F Reclamation Bond #LPM8986618 Fidelity and Deposit Company of Maryland
- G Cooperative Agreement, Mitigation Related to Oil and Gas Field Development on the Rabbit Gulch Wildlife Management Area

**SECTION 1 GRANT AND LOCATION OF EASEMENT**

- 1.1 **Burdened Property.** Surface Owner owns certain real property known to Surface Owner as the Rabbit Gulch Unit of the Tabby Mountain Wildlife Management Area ("WMA"). Surface Owner represents that its purposes and uses of owning said WMA is to provide important habitat for wildlife, and to provide wildlife-based recreation for the general public. Surface Owner grants and conveys to BBC a nonexclusive easement lease ("Easement") for four wellsites ("Wellsites" or "Surface Use Areas") and pipelines and access roads associated with those wellsites. The legal descriptions of the road and pipeline centerlines, and of the wellsites, whichever the case may be, of the portions of the WMA to which BBC is hereby granted an Easement are set forth in Exhibits A.1, B.1, C.1, D.1, and D.3, said property hereafter referred to as "**Burdened Property**" and approximately depicted in Exhibits A.2, B.2, C.2, C.3, D.2, and D.4. BBC shall have a 50-foot wide easement, 25 feet on either side of the pipeline centerlines described respectively in Exhibits A.1, B.1, C.1, and D.3 during the construction of the respective

to the Burdened Property. BBC shall have no claim for damages or refund against Surface Owner for any claimed failure or deficiency of Surface Owner's title to said lands, or for interference by any third party.

- 1.3 **Surveys, Maps, and Plans.** In executing this Agreement, Surface Owner is relying upon the surveys, plats, diagrams, and/or legal descriptions provided by BBC. BBC is not relying upon, and Surface Owner is not making any representations about, any surveys, plats, diagrams, and/or legal descriptions provided by Surface Owner.
- 1.4 **Headings.** The Headings in this Agreement are for convenience only and are not intended to, and shall not be construed to, limit, enlarge, or affect the scope or intent of this Easement nor the meaning of any of its provisions.

## **SECTION 2 PURPOSE AND SCOPE OF EASEMENT**

- 2.1 **Purpose.** This Easement is granted for the purpose of ingress and egress for the construction, installation, operation, maintenance, repair, and replacement as necessary of drill pads, pipelines, and access roads, subject to and in accordance with the restrictions and conditions set forth herein, in support of BBC's oil and gas operations on the Burdened Property, and for no other purpose. BBC agrees that it shall not remove from Surface Owner's property ordinary sand and gravel or wood products of any kind without the appropriate permit or other written authorization from Surface Owner. Any unauthorized use of the Burdened Property shall be considered a material breach of this Agreement.

- 2.2 **Number and Kind of Infrastructure.** Under this Agreement, BBC shall have the right to construct, maintain and repair three (3) buried pipelines, not to exceed Twenty-Five (25) inches in diameter, per Wellsite, in the pipeline easement corridors described in Exhibits A.1, B.1, C.1, and D.3.

No other difference in the number, kind, or size of permanent structures to be constructed on the Burdened Property shall be allowed from that set forth in this Agreement, except production facilities, storage tanks, and such equipment deemed necessary by BBC for the production of the wells located on the Burdened Property, said production facilities, storage tanks, and such equipment to be located on the Surface Use Areas. Paving of any road is expressly prohibited.

- 2.3 **Exclusivity.** It is expressly understood and agreed that the right herein granted is non-exclusive. Surface Owner hereby reserves the right to issue other non-exclusive easements, leases, or permits on or across the Burdened Property where such uses are appropriate and compatible, or dispose of the property by sale or exchange.
- 2.4 **Permittees.** BBC may permit its respective employees, agents, contractors, licensees, herein individually referred to as "Permittee" and collectively referred to as "Permittees", to exercise the rights granted herein. Acts or omissions of the Permittees operating under this Easement shall be deemed an act of BBC.

### **2.5 Seasonal Restrictions.**

- (a) BBC shall not engage in construction activities on the Burdened Property including and between the dates of December 1 to April 15 ("Seasonal Closure"), subject to the Cooperative Agreement set forth in Exhibit G. BBC shall have the right to enter the Burdened Property during Seasonal Closure for service, maintenance and repair of its production facilities and the wells to the extent that such service, maintenance and repair could not have reasonably been anticipated or could not reasonably be



- (c) The Parties agree that, except for emergency activities described in Subsection 2.5(b), should activities for major construction or major maintenance or repair projects during Seasonal Closure be desired by BBC, the Parties shall consult in good faith to determine how such activities might be accomplished without undue harm to wildlife.
- (d) The Parties agree that should extraordinary circumstances arise, including extraordinarily inclement weather, during Seasonal Closure wherein activities permitted under this Agreement would result in significant harm or stress to or for wildlife, the Parties shall consult in good faith to determine how that significant harm or stress might be avoided.
- (e) The Parties agree that should information pertaining to wildlife or vegetation become known to either one or both the Parties, and which would be useful in preventing harm to wildlife or vegetation, the Parties shall consult in good faith to determine how activities allowed under this Agreement might be modified, to the extent the Parties might agree at that time.
- (f) As described in Section 5 of this Agreement, BBC shall notify Surface Owner of BBC's activities in some circumstances.

### SECTION 3 TERM AND RENEWAL

- 3.1 Term Defined.** The term of this Easement is thirty (30) years ("Term"), commencing on the date of the last signature affixed to this Agreement, unless earlier terminated, subject to the terms and conditions set forth in this Agreement, and any valid and exiting rights.
- 3.2 Renewal of the Easement.** BBC shall have the option to renew this Easement and BBC may exercise this option by providing written notice of its election to renew at any time within six (6) months but not later than (30) days prior to the Termination Date of the Initial Term of this Easement. BBC shall not be entitled to renew if it is in default under the terms of this Easement or other agreement with Surface Owner at the time the option to renew is exercised. The terms and conditions of any renewal Term shall be re-negotiated under the conditions, rules and laws in effect at the time of renewal. The Parties shall have sixty (60) days to come to agreement on the conditions and value of the easement after Surface Owner's receipt of BBC's notice of intent to renew. After the aforementioned six-month period, BBC's option to renew shall be null and void and the Easement shall terminate at the conclusion of this Agreement's Term.

### SECTION 4 RENT/ PAYMENTS

All payments are final. There shall be no pro-rata reimbursement of any payments hereunder should the Easement outlined under this Agreement terminate before its Term has lapsed.

- 4.1 Rental Payment.** BBC shall pay a single use payment for the initial Term in the amount of **Forty-Six Thousand, Nine-Hundred and Forty-Three and Fifty-Six One-Hundredths Dollars (\$46,943.56**, comprised of **\$44,921.06** in Right-of-Way fees, plus **\$2,022.50** in Administrative Cost Recovery). Payment is due when BBC returns this Agreement to Surface Owner appropriately signed and notarized. Surface Owner shall be entitled to additional compensation for any additional Use or User outside the scope of this Easement. Use or User shall not be construed to include affiliates or joint venturers of BBC so long as the Use or User remains within the scope of this Easement. For purposes of this Agreement,

(b) "joint venturer" means a party to an operating agreement, including pooled parties pursuant to state regulations, with respect to a Wellsite located on the Burdened Property.

- 4.2 Administrative Costs.** In approving a request to apportion, assign, or transfer an interest in this Easement, Surface Owner shall be entitled to charge for administrative costs for approving the transfer.
- 4.3 Non-Waiver.** Surface Owner's acceptance of a payment shall not be construed to be a waiver of any preceding or existing breach other than the failure to pay the particular payment that was accepted.

## **SECTION 5 NOTIFICATION OF ACTIVITIES**

- 5.1** All notifications shall reference the Easement number and the location of BBC's activity. Notification of activities covered under this Section shall be in writing, which may include email, and be deemed sufficient if made solely to Surface Owner's Northeastern Region Habitat Manager or Petroleum Biologist. The respective time periods required between notification and commencement of activities covered under this Section may be waived in writing, which may include email, by Surface Owner's Northeastern Region Supervisor, Habitat Manager or Petroleum Biologist.
- 5.2** BBC shall notify Surface Owner:
- (a) at least Twenty-Four (24) hours prior to any major repair contemplated in Subsection 2.5(a) of BBC's facilities during Seasonal Closure, if such repair requires the use of heavy equipment such as backhoes or other mechanized earth-moving equipment, heavy boom trucks, or cranes.
  - (b) within five (5) business days after the start of emergency activities during Seasonal Closure, said activities contemplated in Subsection 2.5(b).
- 5.3** Regardless of Seasonal Closure restrictions, BBC shall notify Surface Owner at least three (3) days prior to excavation of any previously reclaimed site, except in cases where such excavation takes place as a result of emergency activities contemplated in Subsection 2.5(b), in which case notification shall take place within five (5) days after the start of emergency activities.
- 5.4** Should future conditions be such that Surface Owner determines there is little wildlife-monitoring value facilitated by BBC's prior notification, the Parties may amend this Agreement and terminate the prior notification requirements of this Section, to the extent the Parties may mutually agree in writing at the time.

## **SECTION 6 CONSTRUCTION, MAINTENANCE AND REPAIR OF EASEMENT AND IMPROVEMENTS AND TRADE FIXTURES**

- 6.1 BBC's Activities.** BBC shall conduct its construction, maintenance and repair operations in accordance with the Surface Use Plan attached as Exhibit E; however, should any provisions of the Surface Use Plan conflict with any provision set forth in the body of this Agreement, the provision in the body of this Agreement shall govern. BBC shall promptly repair, at its sole cost, all damages to the Burdened Property, and to any improvements, or natural resources such as soil or vegetation resources, thereon which are caused by BBC's activities. BBC shall take all reasonable precautions to protect the

condition it was in prior to commencement of the work. BBC shall notify Surface Owner in writing within five (5) days after completion of work, to allow Surface Owner to inspect the work.

- 6.2 Waste.** BBC shall commit no waste on the Burdened Property and will make reasonable efforts to keep the property clean. BBC shall not cause any filling activity on the Burdened Property. This prohibition includes any deposit of rock, earth, ballast, refuse, garbage, waste matter (including chemical, biological or toxic wastes), hydrocarbons, any other pollutants, or other matter in or on the Burdened Property, except as provided under this Agreement or approved in writing by Surface Owner. Ordinary waste committed by third parties on the Burdened Property shall be removed by BBC, at BBC's cost. If BBC fails to comply with this Subsection, Surface Owner may take any steps reasonably necessary to remedy such failure, subject to the notice and right to cure provisions of Section 11. Upon demand by Surface Owner, BBC shall pay all costs of such remedial action, including, but not limited to the costs of removing and disposing of any material deposited improperly on the Burdened Property. This section shall not in any way limit BBC's liability under Section 9 below.
- 6.3 Weed Control.** BBC shall monitor the Burdened Property for noxious weeds, and shall promptly eradicate, at BBC's own cost, all noxious weeds on the Burdened Property. BBC shall also control at its own cost any infestation that has spread beyond the boundaries of the Burdened Property if such infestation is reasonably deemed by Surface Owner to have originated on, and spread from, the Burdened Property as evidenced by weed colonization on the Burdened Property and patterns of weed colonization local to the Burdened Property. Such weed control shall comply with the Utah Noxious Weed Act, any Administrative Rules promulgated therefrom, and County noxious weed control programs. BBC shall consult with Surface Owner regarding BBC's control of noxious weeds on the Burdened Property. All methods of chemical weed control shall require prior review and approval of Surface Owner prior to BBC implementing said chemical control. No aerial spraying without prior approval by Surface Owner is permitted. All earth-moving equipment shall be thoroughly cleaned of soil and other materials that may harbor noxious weed seeds prior to being moved onto Surface Owner's property. If BBC fails to take action to control noxious weeds within five (5) days following notice from Surface Owner, Surface Owner may undertake control measures, and BBC shall reimburse Surface Owner upon demand for all costs incurred in implementing such measures. BBC will continue to be responsible for noxious weed control on the Burdened Property after termination of the Easement until Surface Owner is satisfied with the results and has in written notification released BBC from its weed control obligations, which notification shall not be unreasonably withheld.
- 6.4 Installation Specifications.** Where improvements are buried, they shall be buried at a minimum depth of three (3) feet below the surface of the Burdened Property. For installations within roadways, the improvements shall be buried at a minimum depth of three (3) feet below the road surface or three (3) feet below the bottom of the ditch, whichever applies. Surface Owner reserves the right to inspect the open trench during construction to ensure compliance with the installation specifications.
- 6.5 Pre-construction.** Forty-Eight (48) hours prior to commencement of the activities associated with installation of the facilities within the Easement granted herein, BBC shall notify Surface Owner's Appropriate Regional Habitat Manager to advise of the activities that will occur and an estimated time frame for said activities as depicted on the relevant Exhibit describing said construction on the Burdened Property. Thirty (30) days prior to any subsequent construction or reconstruction by BBC on the Burdened Property, BBC shall submit a written plan of construction to Surface Owner's Appropriate Regional Habitat Manager outlining the construction or activity for Surface Owner's approval. During the course of construction, operations, or maintenance, BBC shall minimize soil

**6.6 Road Maintenance.** Maintenance is defined as work normally necessary to preserve and keep the road in satisfactory and functional repair.

(a) BBC herein is responsible for maintaining any roads on Surface Owner's property used in conjunction with this Agreement; however, the cost of performance of road maintenance and resurfacing shall be allocated on the basis of respective users of said roads. Where one or more authorized party(ies) uses a road, or portion thereof, those parties shall perform or cause to be performed, or contribute or cause to be contributed, that share of maintenance and resurfacing occasioned by such use as hereinafter provided. During periods when a road is being used solely by one party, such party shall maintain that portion of said road so used to the standards equal to or better than those existing at the time use is commenced; provided Surface Owner reserves the right to make reasonable regulations concerning priority of use and maintenance of said roads by it and others.

(b) During periods when more than one party is using the same road, or any portion thereof, the parties hereto shall meet and establish necessary maintenance provisions. Such provisions shall include, but shall not be limited to:

(1) The appointment of a maintainer, which may be one of the Parties hereto or any third party, who will perform or cause to be performed at a reasonable and agreed upon rate the maintenance and resurfacing of the road or the portion thereof being used; and

(2) A method of payment by which each party using said road or a portion thereof, shall pay its pro rata share of the cost incurred by said maintainer in maintaining or surfacing said road or portion thereof.

**6.7 Road Repair.** BBC shall repair or cause to be repaired at its sole cost and expense that damage to roads used under this Easement in excess of that caused by normal and prudent usage of said roads. Should damage be caused by an unauthorized user, the cost of repair shall be treated as ordinary maintenance and handled as set forth above. BBC may add or replace gravel on road surfaces on the Burdened Property, but shall not pave any portion of the road without Surface Owner's written consent.

**6.8 Road Restoration.** If BBC fouls the surfacing by dragging earth from sides or other sources across the road and onto the surface portion of the road, BBC shall resurface that portion so affected at its sole cost and expense. Where the Easement crosses existing roads, BBC shall restore roads as near as practicable to their original condition, if any damage occurs to those roads during BBC's use of this Easement.

**6.9 Road Improvements.** Unless the Parties agree in writing to share the cost of improvements, improvements shall be at the sole expense of the improver.

**6.10 Road Relocation.** Surface Owner may request the relocation of a road in order to protect wildlife, soil, or vegetation resources or minimize damage thereto, so long as the new location does not unreasonably interfere with BBC's rights herein. The costs of such relocation shall be divided as negotiated and agreed by the Parties.

**6.11 Resource Damage.** BBC shall take all reasonable precautions to protect Surface Owner-owned crops and trees. BBC shall report to Surface Owner any visible resource damage, illegal dumping, or any other change in condition on the Burdened Property that is observed from BBC's observations of the Easement.

## SECTION 7 INTERFERENCE

## **SECTION 8 COMPLIANCE WITH LAWS**

BBC shall comply with all applicable laws, including all Surface Owner's rules and regulations, and state, county and municipal laws, ordinances, or regulations in effect. BBC shall obtain and be in possession of all permits and licenses required for the authorized use of the Easement and shall provide proof of such permits/licenses upon request by Surface Owner.

## **SECTION 9 ENVIRONMENTAL LIABILITY/RISK ALLOCATION**

- 9.1 Definition.** "Hazardous Substance" means any substance which now or in the future becomes regulated or defined under any federal, State, or local statute, ordinance, rule, regulation, or other law relating to human health, environmental protection, contamination or cleanup, including, but not limited to, the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA"), 42 U.S.C. 9601, et seq.
- 9.2 Use of Hazardous Substances.** BBC covenants and agrees that Hazardous Substances will not be used, stored, generated, processed, transported, handled, released, or disposed of in, on, under, or above the Burdened Property, except in accordance with all applicable Local, State, and Federal laws.
- 9.3 Current Conditions, Duty of Utmost Care, and Duty to Investigate.**
- (a) Surface Owner makes no representation about the condition of the Burdened Property. Hazardous Substances may exist in, on, under, or above the Burdened Property.
- (b) BBC shall exercise the utmost care with respect to both Hazardous Substances in, on, under, or above the Burdened Property, and any Hazardous Substances that come to be located in, on, under or above the Burdened Property during the Term of this agreement, along with the reasonably foreseeable acts or omissions of third parties affecting those Hazardous Substances, and the reasonably foreseeable consequences of those acts or omissions. The obligation to exercise utmost care under this Subsection 9.3 includes, but is not limited to, the following requirements:
- (1) BBC shall not undertake activities that will cause, contribute to, or exacerbate contamination of the Burdened Property;
  - (2) BBC shall not undertake activities that damage or interfere with the operation of remedial or restoration activities on the Burdened Property;
  - (3) BBC shall not undertake any activities that result in the mechanical or chemical disturbance of Burdened Property habitat mitigation, except as reasonably necessary for BBC's use and occupancy of the Burdened Property, and in such instances will notify Surface Owner prior to undertaking such activities; and
  - (4) BBC shall allow access to the Burdened Property by employees and authorized agents of the Environmental Protection Agency, the State of Utah or other similar environmental agencies.
- (c) It shall be BBC's obligation to gather sufficient information to its satisfaction concerning the Burdened Property and the existence, scope and location of any Hazardous Substances on the Burdened Property, or on adjoining property (to the extent reasonably

(a) BBC shall immediately notify Surface Owner if BBC becomes aware of any of the following:

- (1) A release or threatened release of Hazardous Substances in, on, under or above the Burdened Property, any adjoining property, or any other property subject to use by BBC in conjunction with its use of the Burdened Property;
- (2) Any actual or alleged violation of any federal, state, or local statute, ordinance, rule, regulation, or other law pertaining to Hazardous Substances with respect to the Burdened Property, any adjoining property, or any other property subject to use by BBC in conjunction with its use of the Burdened Property, in the event BBC observes or is notified of such violations;
- (3) Any lien or action with respect to any of the foregoing; or
- (4) Any notification from the U.S. Environmental Protection Agency (EPA) or the State of Utah that remediation or removal of Hazardous Substances is or may be required at the Burdened Property.

(b) BBC shall, at Surface Owner's request, provide Surface Owner with copies of all reports, studies, or audits which pertain to the Burdened Property, and which are or were prepared by or for BBC and submitted to any federal, State, or local authorities as required by any federal, State, or local permit, license, or law. These reports or permits may include, but are not limited to, any National or State Pollution Discharge Elimination System Permit, any Army Corps of Engineers permit, any Hydraulics Project Approval or any Water Quality Certification.

**9.5 Indemnification.** BBC shall fully indemnify, defend, and hold Surface Owner, its director, managers, employees and agents harmless from and against any and all claims, demands, damages, damages to natural resources such as soil, water, vegetation, and wildlife, response costs, remedial costs, cleanup costs, losses, liens, liabilities, penalties, fines, lawsuits, other proceedings, costs, and expenses (including attorney's fees and disbursements), that arise out of or are in any way related to:

(a) The use, storage, generation, processing, transportation, handling, or disposal of any Hazardous Substance by BBC, its contractors, agents, employees, guests, invitees, or affiliates in, on, under, or above the Burdened Property, any adjoining property, or any other property subject to use by BBC in conjunction with its use of the Burdened Property, during the term of this Easement or during any time when BBC occupies or occupied the Property.

(b) The release or threatened release of any Hazardous Substance in, on, under, or above the Burdened Property, any adjoining property, or any other property subject to use by BBC in conjunction with its use of the Burdened Property, which release or threatened release occurs or occurred during the term of this Easement or during any time when BBC occupies or occupied the Burdened Property or any such other property and as a result of:

- (1) Any act or omission of BBC, its contractors, agents, employees, guests, invitees, or affiliates; or
- (2) Any reasonably foreseeable act or omission of a third party unless BBC exercised the utmost care with respect to the reasonably foreseeable acts or omissions of the third party and the reasonably foreseeable consequences of those acts or omissions.

(c) A breach of the obligations of Subsection 9.3, above, by BBC, its contractors,

Substances. Cleanup actions shall include, without limitation, resource restoration, mitigation, removal, containment and remedial actions and shall be performed in accordance with all applicable laws, rules, ordinances, and permits. BBC's obligation to undertake a cleanup of the Burdened Property under this Subsection 9.6 shall be limited to those instances where the Hazardous Substances exist in amounts that exceed the threshold limits of any applicable Federal, State and Local regulatory cleanup standards, or where it is determined that there will be continuing damages to natural resources in the absence of a cleanup action. BBC shall also be solely responsible for all cleanup, administrative, and enforcement costs of governmental agencies, including natural resource damage claims arising out of any action, inaction, or event described or referred to in Subsection 9.5, above. BBC may take reasonable and appropriate actions without advance approval in emergency situations.

**9.7 Sampling by Surface Owner, Reimbursement, and Split Samples.**

(a) Surface Owner may conduct sampling, tests, audits, surveys or investigations ("Tests") of the Burdened Property at any time to determine the existence, scope, or effects of Hazardous Substances on the Burdened Property, any adjoining property, or any other property subject to use by BBC in conjunction with its use of the Burdened Property. If such Tests indicate the existence, release or threatened release of Hazardous Substances arising out of any action, inaction, or event described or referred to in Subsection 9.5, above, BBC shall promptly reimburse Surface Owner for all costs associated with such Tests.

(b) Surface Owner's ability to seek reimbursement for any Tests under this Subsection shall be conditioned upon Surface Owner providing BBC written notice of its intent to conduct any Tests at least thirty (30) calendar days prior to undertaking such Tests, unless such Tests are performed in response to an emergency situation, in which case Surface Owner shall only be required to give such notice as is reasonably practical.

(c) BBC shall be entitled to split samples of any Test samples obtained by Surface Owner. The additional cost of any split samples shall be borne solely by BBC. Any additional costs Surface Owner incurs by virtue of BBC's split sampling shall be reimbursed to Surface Owner within thirty (30) calendar days after a bill for such costs is sent to BBC.

**9.8 Contamination Investigation.**

(a) If Surface Owner has reason to believe that a release or threatened release of Hazardous Substances has occurred on the Burdened Property during BBC's occupancy, Surface Owner may require BBC to conduct a Closeout Environmental Assessment (Closeout Assessment) by providing BBC with written notice of this requirement no later than ninety (90) calendar days prior to the Easement termination date, or within ninety (90) days of any valid notice to terminate the easement earlier than originally agreed. The purpose of the Closeout Assessment shall be to determine the existence, scope, or effects of any Hazardous Substances on the Burdened Property and any associated natural resources. If the initial results of the Closeout Assessment disclose the existence of Hazardous Substances that may have migrated to other property, Surface Owner may require additional Closeout Assessment work to determine the existence, scope, and effect of any Hazardous Substances on adjoining property, any other property subject to use by BBC in conjunction with its use of the Burdened Property, or on any associated natural resources. The Closeout Assessment may include Sediment Sampling as well as any additional testing requirements Surface Owner may require based on changes in scientific, statutory, or regulatory standards for information concerning the activities of BBC, its contractors, agents, employees, guests, invitees, or affiliates.

approved. BBC shall be responsible for all costs required to complete planning, sampling, analyzing, and reporting associated with the Closeout Assessment.

- 9.9 Reservation of Rights.** The Parties have agreed to allocate certain environmental liabilities by the terms of Section 9. With respect to those environmental liabilities covered by the indemnification provisions of Subsection 9.5, that subsection shall exclusively govern the allocation of those liabilities. With respect to any environmental liabilities not covered by Subsection 9.5, the Parties expressly reserve and do not waive or relinquish any rights, claims, immunities, causes of action or defenses relating to the presence, release, or threatened release of Hazardous Substances in, on, under or above the Burdened Property, any adjoining property or any other property subject to use by BBC in conjunction with its use of the Burdened Property that either Party may have against the other under federal, state or local laws, including but not limited to, CERLCA, MTCA, and the common law. No right, claim, immunity, or defense either party may have against third parties is affected by this Easement and the Parties expressly reserve all such rights, claims, immunities, and defenses. The allocations of risks, liabilities, and responsibilities set forth above do not release BBC from or affect BBC's liability for claims or actions by federal, state, or local regulatory agencies concerning Hazardous Substances.
- 9.10 Impacts to Wildlife.** BBC, its employees, contractors, successors and assigns shall make reasonable and good faith efforts to protect any legally protected wildlife to the best of their knowledge and ability. BBC shall report to Surface Owner any harm, threats to harm or harass any legally protected wildlife should BBC become aware of such harm or threats to harm or harass legally protected wildlife in the ordinary course of its operations on the Burdened Property.

## **SECTION 10 PRESERVATION OF SURVEY CORNERS**

BBC shall exercise reasonable care to ensure that all legal land subdivision survey corners and witness objects are preserved. If any survey corners or witness objects are destroyed or disturbed by BBC, BBC shall reestablish them by a registered professional engineer or licensed land surveyor in accordance with US General Land Office standards, at BBC's own expense. Corners and/or witness objects that must necessarily be disturbed or destroyed in the process of construction of improvements and trade fixtures must be adequately referenced and/or replaced in accordance with all applicable laws and regulations in force at the time. The references must be approved by Surface Owner prior to removal of the survey corners and/or witness objects.

## **SECTION 11 TERMINATION OF EASEMENT**

- 11.1 Termination for Cause.** This Easement shall terminate if BBC receives notice from Surface Owner that BBC is in material breach of this Easement and BBC fails to cure that breach within ninety (90) days of Surface Owner's notice, or such longer period as may be required under the circumstances as approved by Surface Owner. If the breaching party fails to correct such breach or fails to diligently undertake efforts to cure such breach within such period, Surface Owner may terminate this Easement without further notice; provided, however, such termination shall not release the breaching party from liability for damage prior to such termination. In addition to terminating this Easement, Surface Owner shall have any other remedy available to it. Surface Owner's failure to exercise its right to terminate at any time shall not waive Surface Owner's right to terminate for any future breach.
- 11.2 Termination for Non-Use.**



(b) Any portion of the Easement that is determined to be unused or abandoned pursuant to this paragraph shall terminate. BBC shall upon request of Surface Owner execute a release of interest in the portion abandoned under the provisions of this Section. Under the non-use clause, BBC shall be responsible for surface reclamation and restoration of the Burdened Property in accordance with Section 12 of this Agreement. Any portion of this Easement that is so described by the following conditions shall be deemed to be unused and abandoned:

(1) Within 365 days of the date of execution of this Agreement, BBC fails to commence construction and installation of the infrastructure authorized under this Easement, unless otherwise waived by Surface Owner in writing;

(2) Within two (2) years of the date of execution of this Agreement, BBC does not obtain production of oil or gas from BBC's oil and gas interests which relate to the Burdened Property, unless otherwise waived by Surface Owner in writing; or

(3) If after establishing production, BBC suspends production or operations for the drilling or reworking of a well on BBC's oil and gas interests for a period longer than thirty-six (36) consecutive months, unless otherwise waived by Surface Owner in writing.

**11.3 Voluntary Termination.** This Easement may also terminate as to all or part of the Burdened Property if BBC has satisfied its outstanding obligations as to the part to be relinquished, provides Surface Owner with sixty (60) days written notice of its intent to terminate, and executes a release of interest to the portion terminated in recordable form. BBC shall not be entitled to a refund for any relinquishment.

**11.4 BBC's Obligations.** BBC obligations not fully performed upon termination shall continue until fully performed.

## **SECTION 12. RECLAMATION**

**12.1 Timing.** As soon as practicable, following the construction of improvements and trade fixtures, or termination of the Easement, all disturbed land, other than access road driving surfaces for those portions of the Easement not terminated, will be recontoured to the approximate natural contours.

**12.2 Soil.** During construction of wellsites, access roads, and pipelines, any and all topsoil moved or removed will be stockpiled and preserved for present and future project area restoration. Soil from the right of way shall not enter any live stream or open water.

**12.3 Revegetation.** BBC will re-establish a successful vegetation cover by reseeding with a seed mixture of shrubs, forbs, and grasses, as specified by Surface Owner. BBC will not be released from this obligation until Surface Owner has inspected the site for two (2) years following construction and reclamation, and has made a determination that the re-vegetation is successful, or such time thereafter until re-vegetation has become successful.

**12.4 Unauthorized Travel.** In consultation with Surface Owner, BBC will undertake reasonable measures, including the placement of signage, cattle guards, trenches, barrier rock or other obstacles, to restrict unauthorized motorized travel, including that of third parties, on or across the Burdened Property. If such measures are not effective in controlling unauthorized motorized travel, BBC will consult with Surface Owner on

## **SECTION 13 OWNERSHIP AND REMOVAL OF IMPROVEMENTS, TRADE FIXTURES, AND EQUIPMENT**

- 13.1 Improvements.** No BBC-Owned improvements, other than appurtenances for the rights herein granted, shall be placed on the Burdened Property without Surface Owner's prior written consent.
- 13.2 Ownership of Improvements and Trade Fixtures.** Except as provided herein, BBC shall retain ownership of all improvements and trade fixtures it may place on the Burdened Property (collectively "BBC Owned Improvements"). BBC-Owned Improvements shall not include any construction, reconstruction, alteration, or addition to any Unauthorized Improvements as defined in Subsection 13.5 below.
- 13.3 Construction.** Issuance of this Easement shall constitute authorization to undertake the initial construction work specified in that agreement without the need for further notice. Subsequent alterations, significant repairs, or new construction shall require advance notice to Surface Owner as contemplated in Section 5.
- 13.4 Removal.** BBC-Owned improvements and trade fixtures that have been installed above or below ground shall be removed by BBC by the Termination Date unless Surface Owner notifies BBC in writing that such may remain. If Surface Owner elects to have such above ground improvements remain on the Burdened Property after the Termination Date, they shall become the property of Surface Owner without payment by Surface Owner. If BBC wishes to leave improvements on the Burdened Property upon expiration of the Easement, BBC shall notify Surface Owner of such intent at least one hundred eighty (180) days before the Termination Date. Surface Owner shall then have ninety (90) days in which to notify BBC whether Surface Owner elects to have the improvements removed or to have them remain. Failure to notify BBC shall be deemed an election by Surface Owner for the improvements to be removed from the Burdened Property. If the improvements remain on the Burdened Property after the Termination Date without Surface Owner's actual or deemed consent, Surface Owner may remove them at BBC's expense. Surface Owner may require BBC to abandon improvements and/or trade fixtures, rather than remove them. Such abandonment shall be undertaken in accordance with a plan approved by Surface Owner. Abandonment of buried facilities should be performed in accordance with the appropriate regulations and any applicable permits. Should Surface Owner elect to allow any part of BBC's improvements or trade fixtures to remain affixed to the Burdened Property, BBC shall make a diligent and good-faith effort to clean the improvements or trade fixtures using the best industry practices and technologies available at the time, as directed by Surface Owner, in order to minimize as much as reasonably practical, environmental contaminants left on or in the Burdened Property.
- 13.5 Unauthorized Improvements.** Improvements made on the Burdened Property without Surface Owner's prior written consent are not authorized ("Unauthorized Improvements"). Surface Owner may, at its option, require BBC to sever, remove, and dispose of them or allow them to remain upon amendment of this Agreement, at which time all provisions of this Agreement shall apply to the Unauthorized Improvements unless otherwise explicitly stated in the amendment. If BBC fails to remove an Unauthorized Improvement within sixty (60) days of notification by Surface Owner, Surface Owner may remove the Unauthorized Improvements and charge BBC for the cost of removal and disposal.

## **SECTION 14 INDEMNITY**

negligence of Surface Owner without negligence or willful act on the part of BBC, its agents, employees, or subcontractors. BBC shall defend all suits brought upon such claims and pay all costs and expenses incidental thereto, but Surface Owner shall have the right, at its option, to participate in the defense incidental thereto without relieving BBC of any obligation hereunder. BBC's liability to Surface Owner for hazardous substances, and its obligation to indemnify, defend, and hold Surface Owner harmless for hazardous substances, shall be governed exclusively by Section 9.

## SECTION 15 FINANCIAL SECURITY

**15.1 Bonding.** At its own expense, BBC shall procure and maintain a non-cancellable corporate surety bond or provide other financial security satisfactory to Surface Owner (the "Bond") in an amount equal to One-Hundred Forty-Five Thousand Dollars (\$145,000), said amount equivalent to One-Hundred and Fifty (150%) of the estimated construction costs of the authorized improvements less materials, said estimated costs represented by BBC, to be placed on or in the Burdened Property, which shall secure BBC's full performance of its obligations under this Agreement. The amount of this bond shall not be deemed to limit any liability of BBC. The Bond shall be in a form and issued by a surety company acceptable to Surface Owner. BBC shall maintain the Bond so long as it uses the Easement. The Bond shall be in effect even if BBC has conveyed all or part of the easement interest to a sublessee, assignee, or subsequent operator until BBC fully satisfies its obligations, or until the Bond is replaced with a new bond posted by the sublessee, assignee or subsequent operator. Said Bond at the date of execution of this Agreement is issued by Fidelity and Deposit Company of Maryland and is identified as Bond Number LPM8986618 (see Exhibit F).

**15.2 Bond Increase.** BBC agrees that, for the causes stipulated below, at any time during the term of this Easement, Surface Owner may require that the amount of an existing Bond be increased in a sum described below, said Bond to be conditioned upon full compliance with all terms and conditions of this Agreement and the rules relating hereto.

(a) **Inflation.** Surface Owner has the option of requiring the value of the Bond to be adjusted to compensate for inflationary pressures on the dollar. The amount of adjustment shall be determined through the use of the Bureau of Labor Statistics Western Region Urban Consumer Price Index ("Western Region CPI-U"). Said adjustments shall reference the year 2007 Western Region CPI-U, and shall be directly proportional to the percent change in Western Region CPI-U between the year 2007 and the year preceding the date of adjustment.

(b) **Additional Improvements.** Surface Owner has the option of requiring increases in the Bond value for additional improvements authorized under amendments to this Agreement, the increases to be in an amount equivalent to 150% of the estimated costs of construction of said improvements, less materials.

**15.3 Default.** Upon any default by BBC in its obligations under this Agreement, Surface Owner may collect on the Bond to offset the liability of BBC to Surface Owner, subject to the notice and right to cure provisions in Sections 11 and 12 herein. Collection on the Bond shall not relieve BBC of liability, shall not limit any of Surface Owner's other remedies, and shall not rein Surface Owner or cure the default or prevent termination of the Easement because of the default. Should the cost of BBC's obligations exceed the value of the Bond, BBC, its successors and assigns, shall be liable for the costs over and above the bonded amount.

## **SECTION 17 ADVANCES BY SURFACE OWNER**

If Surface Owner advances or pays any costs or expenses for or on behalf of BBC, including, but not limited to taxes, assessments, insurance premiums, costs of removal and disposal of unauthorized materials, costs of removal and disposal of improvements and trade fixtures, or other amounts not paid when due, BBC shall reimburse Surface Owner the amount paid and shall pay interest on such amount at the rate of one percent (1%) per month from the date Surface Owner notifies BBC of the advance or payment.

## **SECTION 18 NOTICE**

Except as provided in Section 5 of this Agreement, any notices required or permitted under this Agreement shall be in writing and personally delivered or mailed by certified mail, return receipt requested, to the following addresses or to such other places as the parties may direct in writing from time to time:

### **Surface Owner**

Habitat Section  
Utah Division of Wildlife Resources  
1594 West North Temple, Suite 2110  
Salt Lake City, Utah 84114-6301

AND

Habitat Section  
Utah Division of Wildlife Resources  
152 East 100 North, Suite 9  
Vernal, Utah 84078

### **BBC**

Bill Barrett Corporation  
Attn: Huntington T. Walker  
Sr. Vice President - Land  
1099 18th Street, Suite 2300  
Denver, Colorado 80202

A notice shall be deemed given and delivered upon personal delivery, upon receipt of a confirmation report if delivered by facsimile machine, email or three (3) days after being mailed as set forth above, whichever is applicable.

## **SECTION 19 RESERVATIONS**

Surface Owner, its successors and assigns, reserves all ownership of the Burdened Property and profits thereon, and the right of use for any and all purposes that do not unreasonably interfere with the rights granted herein, including the right to keep the Burdened Property open for public use for recreation; the right to remove profits from the Burdened Property; the right at all times to cross and recross the Burdened Property at any place on grade or otherwise; and the right to use the Easement for access to and from the lands owned by Surface Owner on both sides of the Easement. Surface Owner may grant to third parties any and all rights reserved. Once BBC clears or removes any vegetation on the Burdened Property as provided in this Agreement, vegetation that is subsequently grown in such cleared areas shall belong to Surface Owner.

## **SECTION 20 CULTURAL RESOURCES**

It is hereby understood and agreed that all treasure-trove, all articles of antiquity, and

Section 9-8-302 or 63-73-1 Utah Code Annotated (1953), as amended, is made on the Burdened Property, and continue to cease all construction or maintenance therein until such time as the human remains, "site" or "specimen" in question has been treated to the satisfaction of Surface Owner.

## **SECTION 21 ASSIGNMENT**

- 21.1 Consent of Surface Owner.** BBC shall not hypothecate, mortgage, assign, transfer or otherwise alienate this Easement, or any interest therein, without the prior written consent of Surface Owner, which shall not be unreasonably withheld. In no case shall such consent operate to relieve BBC of the responsibilities or liabilities assumed by BBC hereunder, or be given unless such party is acceptable to Surface Owner and assumes in writing all of the obligations of BBC under the terms of this Agreement as to the balance of the term thereof, or acquires the rights in trust as security and subject to conditions such as Surface Owner deems necessary. A sublease, conveyance, or assignment must be a sufficient legal instrument, properly executed and acknowledged, and should clearly set forth the easement lease contract number, lands involved, and the name and address of the assignee, and shall include any agreement which transfers control of the Easement to a third party. A copy of the documents subleasing, conveying, or assigning the interest shall be given to Surface Owner prior to Surface Owner's approval or denial of the assignment.
- 21.2 Assignee.** Any assignment shall be in keeping with the purposes of this Easement and may only be made to a party qualified to do business in the State of Utah, and which has authority to operate the said facilities, and which is not in default under the laws of the State of Utah relative to qualification to do business within the State, and is not in default on any previous obligation to Surface Owner.
- 21.3 Costs of Assignment.** A sublease, conveyance, or assignment may not be approved without reimbursement of Surface Owner's administrative costs associated with said sublease, conveyance, or assignment; and payment of the difference between what was originally paid for the permit, lease, or contract and what the division would charge for the permit, lease, or contract at the time the application for sublease, conveyance, or assignment is submitted.
- 21.4 Effective Date of Assignment.** A sublease, conveyance, or assignment shall take effect on the date of Surface Owner's approval of the assignment. On the effective date of any assignment, the assignee is bound by the terms of the lease to the same extent as if the assignee were the original grantee, any conditions in the assignment to the contrary notwithstanding.
- 21.5 Non-Waiver.** The consent of Surface Owner to any one assignment shall not constitute a waiver of Surface Owner's right to consent to subsequent assignments, nor shall consent of Surface Owner to any one assignment relieve any party previously liable as BBC from any obligations under this Agreement. The acceptance by Surface Owner of payment of rent following an assignment shall not constitute consent to any assignment and Surface Owner's consent shall be evidenced only in writing.

## **SECTION 22 SUCCESSORS AND ASSIGNS**

This Agreement shall be binding upon and inure to the benefit of the parties, their successors and assigns and shall be a covenant running with the land.

## **SECTION 23 TIME IS OF THE ESSENCE**

TIME IS OF THE ESSENCE as to each and every provision of this Agreement.

easement number, and the duration of the Easement. BBC shall provide Surface Owner a copy of the public recording, whether this Agreement or the memorandum serving notice of the existence of this Agreement. BBC shall have ninety (90) days from the date of delivery of the final executed Agreement to comply with the requirements of this Section.

## **SECTION 25 APPLICABLE LAW AND VENUE**

This Agreement shall be interpreted and construed in accordance with and shall be subject to the laws of the State of Utah. Any reference to a statute shall mean that statute as presently enacted or hereafter amended or superseded. BBC consents to suit in the courts of the State of Utah in any dispute arising under the terms of this Agreement or as a result of operations carried on under this Agreement. Service of process in any such action is hereby agreed to be sufficient if sent by registered mail to BBC at the last known address of BBC appearing in the records of Surface Owner. BBC agrees for itself and its successors and assigns that any suit brought by BBC, its successors or assigns concerning this Agreement may be maintained only in the Utah State District Court of Salt Lake County. In the event of any litigation arising under this Agreement, the prevailing party shall be entitled to recover its costs and reasonable attorneys' fees incurred in connection with the litigation, including any appeals.

## **SECTION 26 MODIFICATION**

Any modification of this Agreement must be in writing and signed by the parties. Surface Owner or BBC shall not be bound by any oral representations of Surface Owner or BBC. If Surface Owner is the Utah Division of Wildlife Resources, authorized signatures may be provided by only the Director or the Director's designee.

## **SECTION 27 SURVIVAL**

Any obligations which are not fully performed upon termination of this Easement shall not cease, but shall continue as obligations until fully performed.

## **SECTION 28 WAIVER**

No Waiver of Conditions by Surface Owner of any default of BBC or failure of Surface Owner to timely enforce any provision of this Agreement shall constitute a waiver of or constitute a bar to subsequent enforcement of the same or other provisions of this Agreement. No provision in this Agreement shall be construed to prevent Surface Owner from exercising any legal or equitable remedy it may have.

## **SECTION 29 WATER RIGHTS**

BBC shall not file an application to appropriate water from the surface or subsurface of Surface Owner's lands unless the application is approved by Surface Owner in writing and is filed in the name of the Surface Owner. All water structures, including impoundment, diversion and conveyance structures or works, used to impound, divert or convey water claimed solely under a Surface Owner water right shall be the property of Surface Owner.

## **SECTION 30 INVALIDITY**

If any provision of this Agreement proves to be invalid, void, or illegal, it shall in no way affect, impair, or invalidate any other provision of this Agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement, effective on the date of the last signature below.

**SURFACE OWNER**

**STATE OF UTAH  
DEPARTMENT OF NATURAL  
RESOURCES, DIVISION OF WILDLIFE  
RESOURCES**

**BBC**

**BILL BARRETT CORPORATION**

By: [Signature] **ACTING DIRECTOR**  
James F. Karpowitz  
Director of Wildlife Resources

By: [Signature]  
Huntington T. Walker  
Sr. Vice President - Land  
Bill Barrett Corporation

Date: 4/4/10

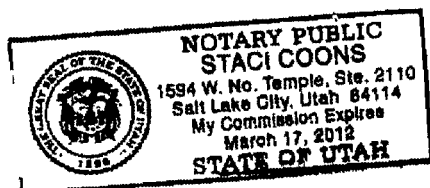
Date: 3/24/2010

**Funding Approvals:  
Division of Wildlife Resources Fiscal  
Management**

By: [Signature]  
Linda Braithwaite  
Budget Officer  
Date: 3/31/10

STATE OF UTAH )  
 ) SS.  
COUNTY OF SALT LAKE )

On this 4 day of April, 2010, Acting [Signature] Alan Clark personally appeared before me James F. Karpowitz, who being first duly sworn said that he is the Director of the Division of Wildlife Resources for the State of Utah, that the foregoing instrument was executed pursuant to authority granted him by The Wildlife Resource Code of Utah (23-21-1), and he acknowledged to me that he executed the same.



Staci Coons  
Notary Public for the State of Utah  
Residing at Salt Lake  
My commission expires 3/17/2012

STATE OF COLORADO )  
CITY AND ) SS.  
COUNTY OF DENVER )

On this 24th day of March, 2010, personally appeared before me Huntington T. Walker to me known to be the Sr. Vice President - Land of Bill Barrett Corporation and executed the within and foregoing instrument, and acknowledged that the execution of the document herein was his free and voluntary act and deed, for the uses and purposes therein mentioned, and gave an oath that he is authorized to execute the within instrument for said corporation.

[Signature]  
Cynthia A. Sandell

**Exhibit A.1**

**Legal Description of Wellsite #4-26-36 BTR Surface Use Area, Access Road and Pipeline Corridor**

**BASIS OF BEARINGS**

**BASIS OF BEARINGS IS A G.P.S. OBSERVATION.**

**Legal Description of Surface Use Area #4-26-36 BTR**

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 26, T3S, R6W, U.S.B.&M. WHICH BEARS S68°59'57"E 1384.69' FROM THE NORTHWEST CORNER OF SAID SECTION 26, THENCE S69°07'25"E 114.32'; THENCE S20°52'35"W 425.00'; THENCE N69°07'25"W 320.00'; THENCE N20°52'35"E 425.00'; THENCE S69°07'25"E 205.68' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.122 ACRES MORE OR LESS.

**Legal Description of Access Road**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 26, T3S, R6W, U.S.B.&M. WHICH BEARS S86°55'07"W 1150.93' FROM THE NORTH 1/4 CORNER OF SAID SECTION 26, THENCE S25°08'32"W 489.69' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 26 WHICH BEARS S68°59'57"E 1384.69' FROM THE NORTHWEST CORNER OF SAID SECTION 26. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.337 ACRES MORE OR LESS.

|

**Legal Description of Pipeline**

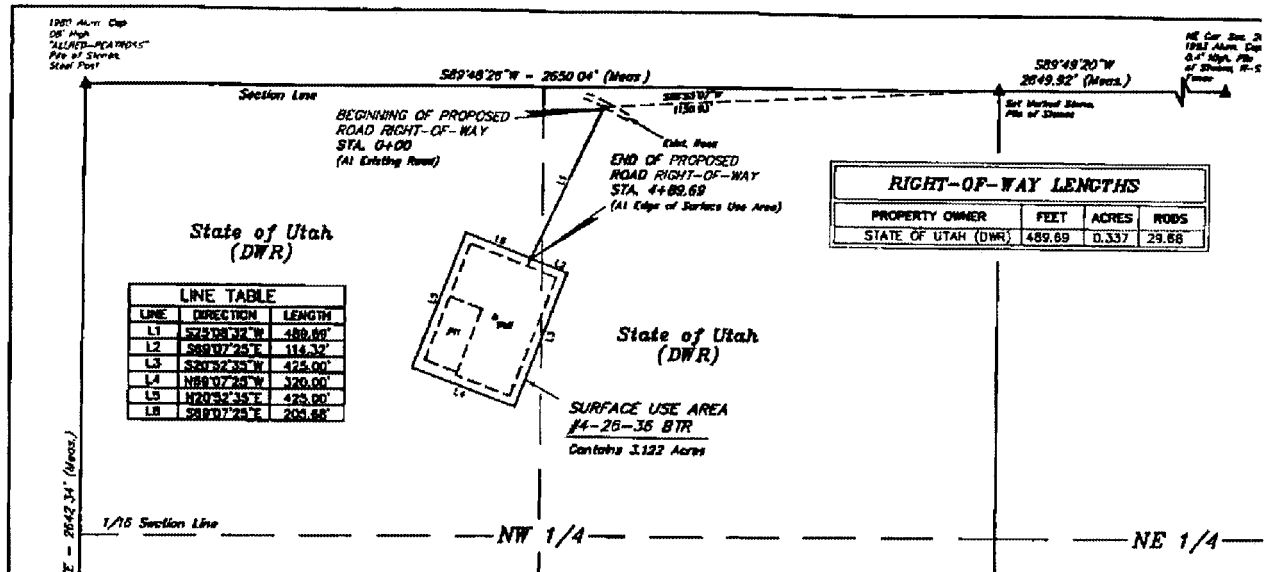
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 26, T3S, R6W, U.S.B.&M. WHICH BEARS S69°00'05"E 1409.76' FROM THE NORTHWEST CORNER OF SAID SECTION 26, THENCE N25°08'32"E 450.61' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 26 WHICH BEARS S84°41'25"W 1147.37' FROM THE NORTH 1/4 CORNER OF SAID SECTION 26. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.310 ACRES MORE OR LESS.

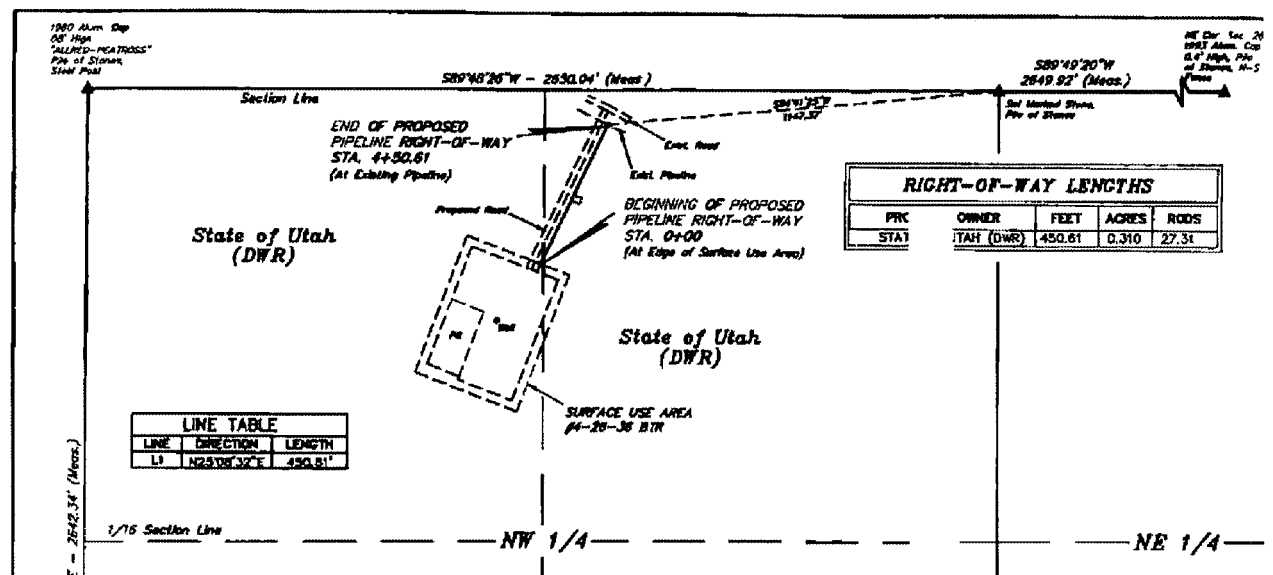
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# **Exhibit A.2** **Depiction of Wellsite #4-26-36-BTR Surface Use Area, Access Road and Pipeline**



## **Pipeline Depiction**



**Exhibit B.1**

**Legal Description of Wellsite #16-21-36 BTR Surface Use Area, Access Road and Pipeline**

**BASIS OF BEARINGS**

**BASIS OF BEARINGS IS A G.P.S. OBSERVATION.**

**Legal Description of Surface Use Area #16-21-36 BTR**

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 21, T3S, R6W, U.S.B.&M. WHICH BEARS N39°49'35"W 1492.67' FROM THE SOUTHEAST CORNER OF SAID SECTION 21, THENCE S14°48'11"E 202.29'; THENCE S75°11'49"W 425.00'; THENCE N14°48'11"W 320.00'; THENCE N75°11'49"E 425.00'; THENCE S14°48'11"E 117.71' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.122 ACRES MORE OR LESS.

**Legal Description of Access Road**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 21, T3S, R6W, U.S.B.&M. WHICH BEARS N38°24'15"W 1539.44' FROM THE SOUTHEAST CORNER OF SAID SECTION 21, THENCE S03°22'13"E 38.33'; THENCE S05°06'39"W 21.85' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 21 WHICH BEARS N39°49'35"W 1492.67' FROM THE SOUTHEAST CORNER OF SAID SECTION 21. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.041 ACRES MORE OR LESS.

**Legal Description of Pipeline**

**PIPELINE RIGHT-OF-WAY DESCRIPTION**

**TOTAL PIPELINE RIGHT-OF-WAY IS CONTAINED WITHIN THE PROPOSED SURFACE USE AREA.**

# **Exhibit B.2** **Depiction of Wellsite #16-21-36 BTR Surface Use Area, Access Road and Pipeline**

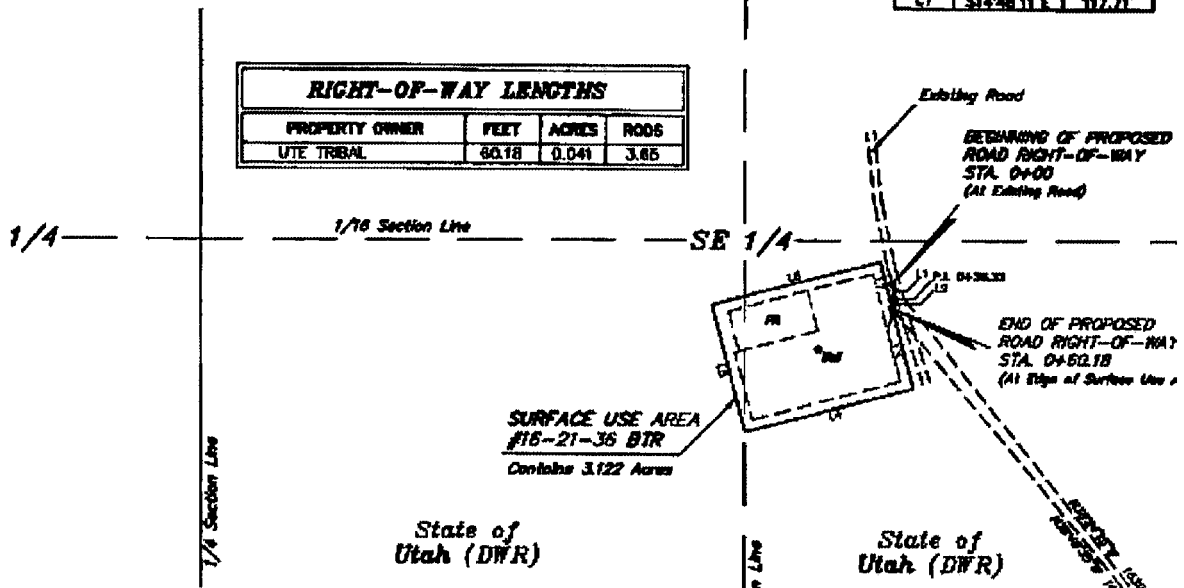
## **ROAD RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

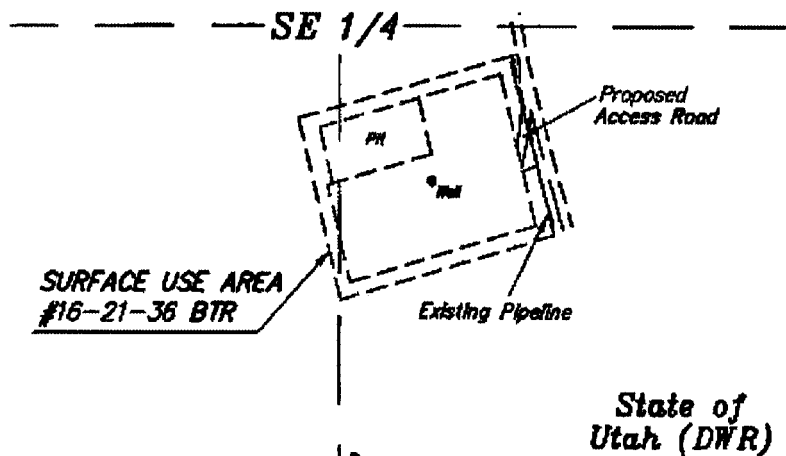
BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 21, T3S, R9W, U.S.B.M. WHICH BEARS N38°24'15"W 1539.44' FROM THE SOUTHEAST CORNER OF SAID SECTION 21, THENCE S03°22'13"E 38.33'; THENCE S05°08'38"W 21.85' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 21 WHICH BEARS N38°48'35"W 1482.67' FROM THE SOUTHEAST CORNER OF SAID SECTION 21. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A Q.P.S. OBSERVATION. CONTAINS 0.041 ACRES MORE OR LESS.

| LINE TABLE |             |         |
|------------|-------------|---------|
| LINE       | DIRECTION   | LENGTH  |
| L1         | S03°22'13"E | 38.33'  |
| L2         | S05°08'38"W | 21.85'  |
| L3         | S14°48'11"E | 202.29' |
| L4         | S78°11'49"W | 425.00' |
| L5         | N14°48'11"W | 320.00' |
| L6         | N75°11'49"E | 425.00' |
| L7         | S14°48'11"E | 117.71' |

| RIGHT-OF-WAY LENGTHS |       |       |      |
|----------------------|-------|-------|------|
| PROPERTY OWNER       | FEET  | ACRES | RODS |
| UTE TRIBAL           | 60.18 | 0.041 | 3.65 |



## **Pipeline Depiction** **Pipeline Contained Within Surface Use Area**



### Exhibit C.1

## Legal Description of Wellsite #14-21-36 BTR Surface Use Area, Access Road and Pipeline

### BASIS OF BEARINGS BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

#### Legal Description of Surface Use Area #14-21-36 BTR

BEGINNING AT A POINT IN THE NE 1/4 SW 1/4 OF SECTION 21, T3S, R6W, U.S.B.&M. WHICH BEARS N22°48'13"W 1483.99' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 21, THENCE N02°00'38"W 200.13'; THENCE N87°59'22"E 425.00'; THENCE S02°00'38"E 320.00'; THENCE S87°59'22"W 425.00'; THENCE N02°00'38"W 119.87' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.122 ACRES MORE OR LESS.

#### Legal Description of Access Road

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

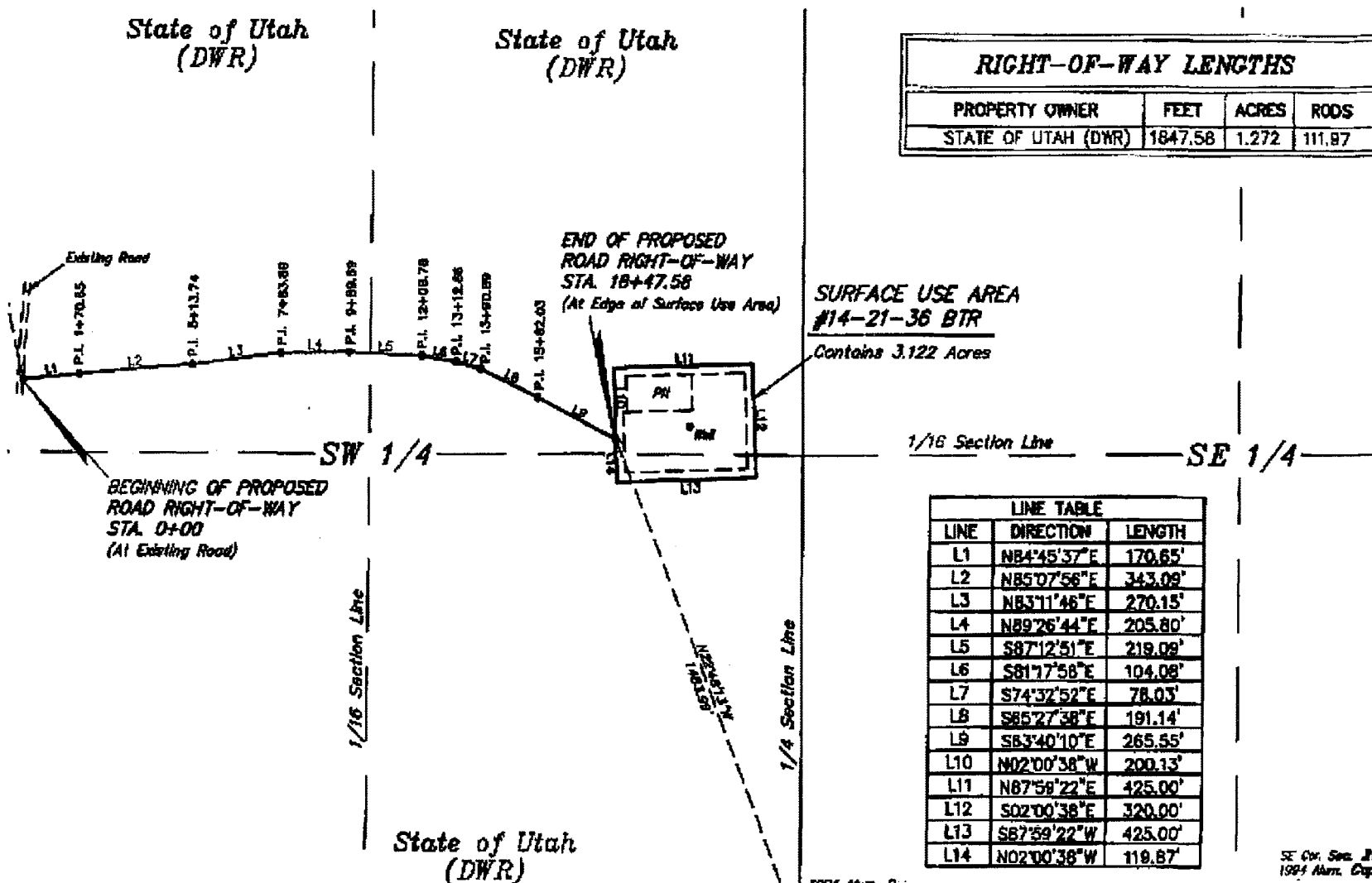
BEGINNING AT A POINT IN THE NW 1/4 SW 1/4 OF SECTION 21, T3S, R6W, U.S.B.&M. WHICH BEARS S13°16'42"E 1149.58' FROM THE WEST 1/4 CORNER OF SAID SECTION 21, THENCE N84°45'37"E 170.85'; THENCE N85°07'58"E 343.09'; THENCE N83°11'46"E 270.15'; THENCE N89°26'44"E 205.80'; THENCE S87°12'51"E 219.09'; THENCE S81°17'58"E 104.08'; THENCE S74°32'52"E 78.03'; THENCE S65°27'38"E 191.14'; THENCE S83°40'10"E 265.55' TO A POINT IN THE NE 1/4 SW 1/4 OF SAID SECTION 21 WHICH BEARS N22°48'13"W 1483.99' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 21. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.272 ACRES MORE OR LESS.

#### Legal Description of Pipeline

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

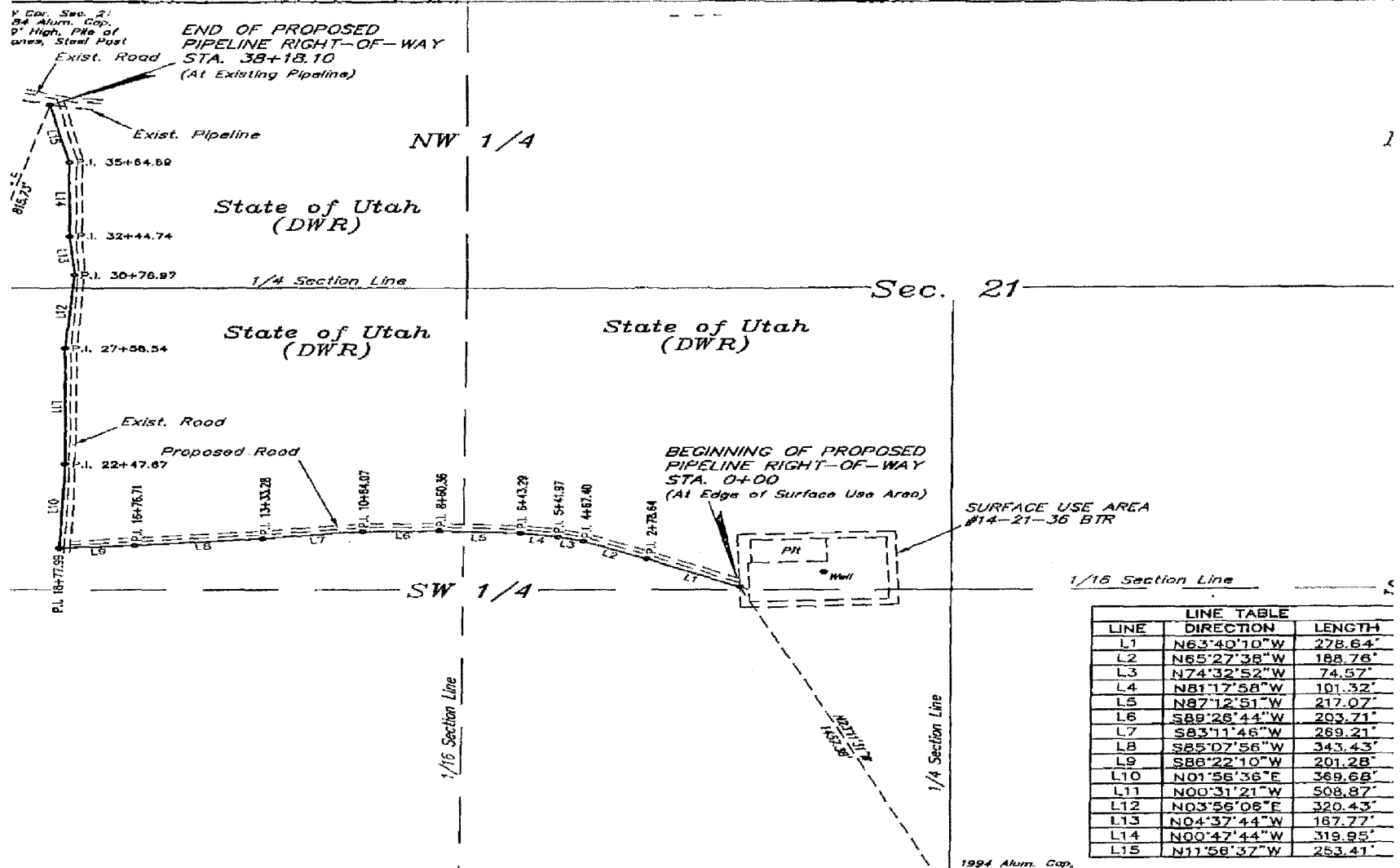
BEGINNING AT A POINT IN THE NE 1/4 SW 1/4 OF SECTION 21, T3S, R6W, U.S.B.&M. WHICH BEARS N23°11'31"W 1457.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 21, THENCE N63°40'10"W 278.64'; THENCE N65°27'38"W 188.76'; THENCE N74°32'52"W 74.57'; THENCE N81°17'58"W 101.32'; THENCE N87°12'51"W 217.07'; THENCE S89°26'44"W 203.71'; THENCE S83°11'46"W 269.21'; THENCE S85°07'56"W 343.43'; THENCE S88°22'10"W 201.28'; THENCE N01°56'36"E 389.68'; THENCE N00°31'21"W 508.87'; THENCE N03°56'08"E 320.43'; THENCE N04°37'44"W 167.77'; THENCE N00°47'44"W 319.95'; THENCE N11°56'37"W 253.41' TO A POINT IN THE SW 1/4 NW 1/4 OF SAID SECTION 21 WHICH BEARS N13°48'46"E 815.73' FROM THE EAST 1/4 CORNER OF SAID SECTION 21. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 2.630 ACRES MORE OR LESS.

**Exhibit C.2**  
**Depiction of Wellsite #14-21-36 BTR Surface Use Area and Access Road**



### Exhibit C.3

Depiction of Pipeline for Wellsite #14-21-36 BTR



### Exhibit D.1

## Legal Description of Wellsite #7-16-36- BTR Surface Use Area, and Access Road

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

### DAMAGE AREA DESCRIPTION

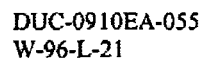
BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 16, T3S, R6W, U.S.B.&M. WHICH BEARS N62°01'11"W 1651.00' FROM THE EAST 1/4 CORNER OF SAID SECTION 16, THENCE N74°59'25"W 126.01'; THENCE N15°00'35"E 405.00'; THENCE S74°59'25"E 320.00'; THENCE S15°00'35"W 405.00'; THENCE N74°59'25"W 193.99' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 2.975 ACRES MORE OR LESS.

### Legal Description of Access Road

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 15, T3S, R6W, U.S.B.&M. WHICH BEARS S13°02'24"E 2174.43' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE N63°39'43"W 131.77'; THENCE N80°55'09"W 148.58'; THENCE N74°51'43"W 85.12'; THENCE N79°41'40"W 57.26'; THENCE N87°26'28"W 75.84'; THENCE S89°51'24"W 248.65'; THENCE S81°31'32"W 81.45'; THENCE S70°36'02"W 121.26'; THENCE S68°38'50"W 204.48'; THENCE S82°51'18"W 233.68'; THENCE S85°25'59"W 94.15'; THENCE S80°38'33"W 98.80'; THENCE S81°44'15"W 134.92'; THENCE S89°59'28"W 65.42'; THENCE N74°31'18"W 113.70'; THENCE N57°40'59"W 78.48'; THENCE N52°02'46"W 112.00'; THENCE N49°20'14"W 87.70'; THENCE N47°52'32"W 92.04'; THENCE N26°22'41"W 75.65'; THENCE N05°13'51"W 99.31'; THENCE N08°50'07"W 45.15'; THENCE N26°03'13"W 59.33'; THENCE N17°28'33"W 48.04'; THENCE N18°25'01"W 101.97'; THENCE N16°55'17"W 89.09'; THENCE N33°30'05"W 118.53'; THENCE N51°57'29"W 69.12'; THENCE N56°15'44"W 68.05'; THENCE N62°08'02"W 43.76'; THENCE N63°32'27"W 76.21'; THENCE N73°46'19"W 45.18'; THENCE N84°56'08"W 49.42'; THENCE S84°19'04"W 86.50'; THENCE S85°48'52"W 91.28'; THENCE N89°27'09"W 115.94'; THENCE N89°13'50"W 88.91'; THENCE S89°04'28"W 63.22'; THENCE S82°42'28"W 100.33'; THENCE S79°16'48"W 21.96' TO A POINT ON THE WEST LINE OF THE SW 1/4 NW 1/4 OF SAID SECTION 15, WHICH BEARS N00°25'15"E 1298.01' FROM THE WEST 1/4 CORNER OF SAID SECTION 15, THENCE S79°16'48"W 74.65'; THENCE S77°24'56"W 80.26'; THENCE S78°22'17"W 79.97'; THENCE N87°13'53"W 66.80'; THENCE N87°34'38"W 148.08'; THENCE N88°16'04"W 45.65'; THENCE S82°49'07"W 41.77'; THENCE S81°33'10"W 63.14'; THENCE S31°04'50"W 78.11'; THENCE S29°39'01"W 78.43'; THENCE S26°44'07"W 184.84'; THENCE S27°30'48"W 85.45'; THENCE S40°20'46"W 95.98'; THENCE S54°41'59"W 71.74'; THENCE S58°59'28"W 46.13'; THENCE S85°51'44"W 45.58'; THENCE S78°45'50"W 43.64'; THENCE S79°30'44"W 50.00'; THENCE S86°24'19"W 52.57'; THENCE N86°19'21"W 47.02'; THENCE N80°33'11"W 66.85'; THENCE N80°12'11"W 50.57'; THENCE N80°47'45"W 82.92'; THENCE N66°37'19"W 37.99'; THENCE N49°14'09"W 48.04'; THENCE N35°55'27"W 29.99' TO A POINT IN THE SW 1/4 NE 1/4 OF SECTION 16, T3S, R6W, U.S.B.&M. WHICH BEARS N62°01'11"W 1651.00' FROM THE EAST 1/4 CORNER OF SAID SECTION 16. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.840 ACRES MORE OR LESS. ▲ =

### Depiction of Wellsite #7-16-36- BTR Surface Use Area, and Access Road





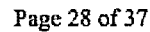
**Exhibit D.3**  
**Legal Description of Pipeline for Wellsite #7-16-36- BTR**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 16, T3S, R6W, U.S.B.&M. WHICH BEARS N61°41'14"W 1610.45' FROM THE EAST 1/4 CORNER OF SAID SECTION 16, THENCE N49°14'09"W 35.90'; THENCE N86°37'19"W 31.06'; THENCE N80°47'45"W 79.95'; THENCE N80°12'11"W 50.62'; THENCE N80°33'11"W 65.51'; THENCE N86°19'21"W 44.17'; THENCE S86°24'19"W 49.47'; THENCE S79°30'44"W 47.90'; THENCE S76°45'50"W 40.66'; THENCE S65°51'44"W 41.69'; THENCE S58°59'28"W 43.70'; THENCE S54°41'59"W 67.65'; THENCE S40°20'46"W 90.02'; THENCE S27°30'48"W 82.47'; THENCE S26°44'07"W 185.30'; THENCE S29°39'01"W 79.38'; THENCE S31°04'50"W 85.23'; THENCE S81°33'10"W 74.64'; THENCE S82°49'07"W 48.41'; THENCE N88°16'04"W 47.75'; THENCE N87°34'38"W 148.30'; THENCE N87°13'53"W 63.07'; THENCE S76°22'17"W 76.59'; THENCE S77°24'56"W 80.89'; THENCE S79°16'48"W 79.98' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 16 WHICH BEARS S00°25'15"W 1298.56' FROM THE NORTHEAST CORNER OF SAID SECTION 16, THENCE S79°16'48"W 17.78'; THENCE S82°42'26"W 102.47'; THENCE S89°04'28"W 64.98'; THENCE N89°13'50"W 89.23'; THENCE N89°27'09"W 114.85'; THENCE S85°46'52"W 89.92'; THENCE S84°19'04"W 88.54'; THENCE N84°56'08"W 54.22'; THENCE N73°46'19"W 49.86'; THENCE N63°32'27"W 78.76'; THENCE N62°08'02"W 45.35'; THENCE N56°15'44"W 70.27'; THENCE N51°57'29"W 74.12'; THENCE N33°30'05"W 126.23'; THENCE N16°55'17"W 92.84'; THENCE N16°25'01"W 101.84'; THENCE N17°28'33"W 45.93'; THENCE N26°03'13"W 61.24'; THENCE N08°50'07"W 49.72'; THENCE N05°13'51"W 95.43'; THENCE N26°22'41"W 66.24'; THENCE N47°52'32"W 86.98'; THENCE N49°20'14"W 66.79'; THENCE N52°02'46"W 110.18'; THENCE N57°40'59"W 71.53'; THENCE N74°31'16"W 106.60'; THENCE S89°59'28"W 60.21'; THENCE S81°44'15"W 132.88'; THENCE S80°39'33"W 95.22'; THENCE S65°25'59"W 90.25'; THENCE S62°51'18"W 233.95'; THENCE S66°38'50"W 206.17'; THENCE S70°36'02"W 124.52'; THENCE S81°31'32"W 85.66'; THENCE S89°51'24"W 251.06'; THENCE N87°26'28"W 78.12'; THENCE N79°41'40"W 60.00'; THENCE N74°51'43"W 69.24'; THENCE N60°04'33"W 210.73'; THENCE N05°09'05"E 51.50'; THENCE N64°33'47"W 71.81'; THENCE S84°12'24"W 138.15'; THENCE S84°42'54"W 71.00'; THENCE N44°42'50"W 52.81' TO A POINT IN THE SW 1/4 NE 1/4 OF SECTION 15, T3S, R6W, U.S.B.&M. WHICH BEARS S18°50'07"E 2292.07' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.026 ACRES MORE OR LESS.

| LINE TABLE |             |         | LINE TABLE |             |         | LINE TABLE |             |         |
|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|
| LINE       | DIRECTION   | LENGTH  | LINE       | DIRECTION   | LENGTH  | LINE       | DIRECTION   | LENGTH  |
| L1         | N49°14'09"W | 35.90'  | L24        | S77°24'56"W | 80.89'  | L47        | N47°52'32"W | 86.98'  |
| L2         | N66°37'19"W | 31.06'  | L25        | S79°16'48"W | 79.98'  | L48        | N49°20'14"W | 66.79'  |
| L3         | N80°47'45"W | 79.95'  | L26        | S79°16'48"W | 17.78'  | L49        | N52°02'46"W | 110.18' |
| L4         | N80°12'11"W | 50.62'  | L27        | S82°42'26"W | 102.47' | L50        | N57°40'59"W | 71.53'  |
| L5         | N80°33'11"W | 65.51'  | L28        | S89°04'28"W | 64.98'  | L51        | N74°31'16"W | 106.60' |
| L6         | N86°19'21"W | 44.17'  | L29        | N89°13'50"W | 89.23'  | L52        | S89°59'28"W | 60.21'  |
| L7         | S86°24'19"W | 49.47'  | L30        | N89°27'09"W | 114.85' | L53        | S81°44'15"W | 132.88' |
| L8         | S79°30'44"W | 47.90'  | L31        | S85°46'52"W | 89.92'  | L54        | S80°39'33"W | 95.22'  |
| L9         | S76°45'50"W | 40.66'  | L32        | S84°19'04"W | 88.54'  | L55        | S65°25'59"W | 90.25'  |
| L10        | S65°51'44"W | 41.69'  | L33        | N84°56'08"W | 54.22'  | L56        | S62°51'18"W | 233.95' |
| L11        | S58°59'28"W | 43.70'  | L34        | N73°46'19"W | 49.86'  | L57        | S66°38'50"W | 206.17' |
| L12        | S54°41'59"W | 67.65'  | L35        | N63°32'27"W | 78.76'  | L58        | S70°36'02"W | 124.52' |
| L13        | S40°20'46"W | 90.02'  | L36        | N62°08'02"W | 45.35'  | L59        | S81°31'32"W | 85.66'  |
| L14        | S27°30'48"W | 82.47'  | L37        | N56°15'44"W | 70.27'  | L60        | S89°51'24"W | 251.06' |
| L15        | S26°44'07"W | 185.30' | L38        | N51°57'29"W | 74.12'  | L61        | N87°26'28"W | 78.12'  |
| L16        | S29°39'01"W | 79.38'  | L39        | N33°30'05"W | 126.23' | L62        | N79°41'40"W | 60.00'  |
| L17        | S31°04'50"W | 85.23'  | L40        | N16°55'17"W | 92.84'  | L63        | N74°51'43"W | 69.24'  |
| L18        | S61°33'10"W | 74.64'  | L41        | N16°25'01"W | 101.84' | L64        | N60°04'33"W | 210.73' |
| L19        | S82°49'07"W | 48.41'  | L42        | N17°28'33"W | 45.93'  | L65        | N05°09'05"E | 51.50'  |
| L20        | N88°16'04"W | 47.75'  | L43        | N26°03'13"W | 61.24'  | L66        | N64°33'47"W | 71.81'  |
| L21        | N87°34'38"W | 148.30' | L44        | N08°50'07"W | 49.72'  | L67        | S84°12'24"W | 138.15' |
| L22        | N87°13'53"W | 63.07'  | L45        | N05°13'51"W | 95.43'  | L68        | S84°42'54"W | 71.00'  |
| L23        | S76°22'17"W | 76.59'  | L46        | N26°22'41"W | 66.24'  | L69        | N44°42'50"W | 52.81'  |

Depiction of Pipeline for Wellsite #7-16-36- BTR



**Exhibit E**  
**Surface Use Plan**  
**Bill Barrett Corporation**  
**2009 – 2010-Development Program**

**Rabbit Gulch Unit of Tabby Mountain WMA Area**  
**Duchesne County, Utah**

**Existing Roads:**

THE RABBIT GULCH AREA IS LOCATED APPROXIMATELY 9 MILES SOUTHWEST OF DUCHESNE, UTAH IS LOCATED IN TOWNSHIP 3 SOUTH, RANGE 6. THE SPECIFIC LOCATION OF A PARTICULAR WELL PAD WILL BE SHOWN ON MAPS AND DESCRIBED IN THE SITE SPECIFIC APD.

The use of county roads under County Road Department maintenance is necessary to access the area.

**Planned Access Roads:**

Descriptions of the individual access road(s) will be included in the site specific APD and ROW application.

SURFACE DISTURBANCE AND VEHICULAR TRAFFIC WILL BE LIMITED TO THE APPROVED LOCATION AND APPROVED ACCESS ROUTE. ANY ADDITIONAL AREA NEEDED WILL BE APPROVED IN ADVANCE WITH THE UDWR.

**Location of Tank Batteries, Production Facilities, and Production Gathering And Service Lines:**

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will conform to DOGM standards. All facilities will be painted within six months of installation.

A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

**Location and Type of Water Supply**

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

**Source of Construction Materials:**

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from UDWR lands. If any gravel is used, it will be obtained from an approved gravel pit.

## Exhibit E

### **Rabbit Gulch Unit of Tabby Mountain WMA Area Duchesne County, Utah**

#### **Existing Roads:**

THE RABBIT GULCH AREA IS LOCATED APPROXIMATELY 9 MILES SOUTHWEST OF DUCHESNE, UTAH IS LOCATED IN TOWNSHIP 3 SOUTH, RANGE 6. THE SPECIFIC LOCATION OF A PARTICULAR WELL PAD WILL BE SHOWN ON MAPS AND DESCRIBED IN THE SITE SPECIFIC APD.

The use of county roads under County Road Department maintenance is necessary to access the area.

#### **Planned Access Roads:**

Descriptions of the individual access road(s) will be included in the site specific APD and ROW application.

SURFACE DISTURBANCE AND VEHICULAR TRAFFIC WILL BE LIMITED TO THE APPROVED LOCATION AND APPROVED ACCESS ROUTE. ANY ADDITIONAL AREA NEEDED WILL BE APPROVED IN ADVANCE WITH THE UDWR.

#### **Location of Tank Batteries, Production Facilities, and Production Gathering And Service Lines:**

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A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

#### **Location and Type of Water Supply**

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

#### **Source of Construction Materials:**

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from UDWR lands. If any gravel is used, it will be obtained from an approved gravel pit.

## **Exhibit E**

### **Methods of Handling Waste Materials:**

DRILL CUTTINGS WILL BE CONTAINED AND BURIED IN THE RESERVE PIT.

Drilling fluids, including any salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed.

Unless otherwise specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not allow discharge of liquids.

If it is determined, at the onsite, that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12-millimeters thick. The liner will overlay a felt-liner pad if rock that might tear or puncture the liner is encountered during excavation. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash, scrap pipe, etc. that could puncture the liner will not be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. The pit liner will be protected during drilling and completion operations.

Production fluids will be contained in leak-proof tanks. All production fluids will be sold, recycled, or disposed of at approved disposal sites.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical self-contained sanitary-toilet will be onsite during drilling and completions.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The reserve pit fencing will be on three sides before drilling operations start. The fourth side will be fenced as soon as drilling is completed and the rig is removed. The fencing will be maintained until such time as the pits are backfilled.

### **Ancillary Facilities:**

GARBAGE CONTAINERS AND PORTABLE TOILETS ARE THE ONLY ANCILLARY FACILITIES PROPOSED. NO ADDITIONAL ANCILLARY FACILITIES ARE FORESEEN IN THE FUTURE.

### **Wellsite Layout:**

A LOCATION LAYOUT DIAGRAM DESCRIBING DRILL PAD CROSS-SECTIONS, CUTS AND FILLS, AND LOCATIONS OF MUD TANKS, RESERVE PIT, FLARE PIT, PIPE RACKS, TRAILER PARKING, SPOIL DIRT stockpile(s), and the surface materials stockpile(s) will be included with the site specific APD and developed through a consultant.

## Exhibit E

### Plans for Restoration of the Surface:

The dirt contractor will be provided with an approved copy of the surface use plan and these Standard Operating Procedures prior to commencing construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. All reclamation standards will be developed between Bill Barrott Corporation (BBC) and UDWR. Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be recontoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored as near as possible to its original line of flow.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The remaining liner will be torn and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting, unless it is determined that this location will be utilized to drill additional wells within 1 year of completing operations.

After the reserve pit has been reclaimed, diversion ditches and water bars will be used to divert precipitation runoff/runoff as appropriate.

Prior to the construction of the location, the top 6 inches or maximum available topsoil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be recontoured and the stockpiled topsoil spread over the area.

If topsoil must be stored for more than one year:

It shall be windrowed on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

It shall be broadcast seeded with the prescribed seed mixture immediately after windrowing. Seed will be drilled on the contour to an appropriate depth and the stockpile then "walked" with a dozer to cover the seed and roughen the soil to prevent erosion.

Mulching may be considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

## **Exhibit E**

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

UDWR shall be contacted for the required seed mixture. Seed will be drilled on the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

At final abandonment, BBC will follow UT-DOGM standards for final well abandonment.

### **Other Information:**

The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the BBC field representative to ensure compliance.

The operator will control noxious weeds along applied access road authorizations, pipeline route authorizations, well sites or other applicable facilities

Wells drilled during the fire season (June – October) all appropriate precautions shall be instituted to ensure that fire hazard is minimized, including, but not limited to, controlling vegetation and keeping fire fighting equipment readily available during all drilling and completion operations.

Drilling rigs and/or equipment used during drilling operations on locations will not be stacked or stored on UDWR administered lands after the conclusion of drilling operations or at any other time without permission by the UDWR. If UDWR permission is obtained, such storage will only be temporary measure.

Travel will be restricted to approved travel routes.

### **Bill Barrett Corporation and UDWR Contacts:**

#### **BBC REPRESENTATIVES:**

DON HAMILTON, REGULATORY AND PERMITTING; PHONE: (435) 719-2018

#### **UDWR REPRESENTATIVES:**

BEN WILLIAMS, UDWR, WILDLIFE RESOURCES; PHONE: (435) 781-5357

BILL JAMES, UDWR, WILDLIFE RESOURCES, MANAGER; PHONE: (801) 538-4745

**Exhibit F**  
**Reclamation Bond #LPM8986618 Fidelity and Deposit Company of Maryland**

Bond Number LPM8986618

**Easement Permit Bond**

KNOW ALL MEN BY THESE PRESENTS, That We Bill Barrett Corporation

of Denver, CO

hereinafter referred to as the Principal, and Fidelity and Deposit Company of Maryland

a corporation organized and existing under the laws of the State of Maryland

and authorized to do business in the State of Utah as Surety, are held and firmly

bound unto State of Utah, Department of Natural Resources, Division of Wildlife Resources, 1594 W. North Temple, Ste 2110, SLC, UT

herein after referred to as Oblige, in the sum of One Hundred Forty Five Thousand and no/100 Dollars (\$145,000.00)

lawful money of the United States of America  
to the payment of which sum, well and truly to be made, we bind ourselves, our executors, administrators, successors and assigns, firmly by these presents.

WHEREAS, the Principal has applied for a license or permit for DUC 0910 EA 055 for the following well sites: 4-26-36 BTR, 16-21-36 BTR, 14-21-36 BTR, and 7-16-36 BTR and their supporting roads and pipelines for the term beginning the 7th of January 2010 and ending the 7th of January 2011 to cover the term of said License or Permit.

NOW, THEREFORE, if said Principal shall faithfully perform all the duties of this lease according to the requirements of the ordinance of said Oblige and protect said Oblige from any damage as hereinbefore stated, then this obligation shall be null and void; otherwise to remain in full force and effect.

THIS BOND WILL continue in force until January 7, 2011 and will continue with a Continuation Certificate signed by Principal and Surety.

SIGNED, SEALED and DATED this 7<sup>th</sup> day of January 2010

Bill Barrett Corporation

Principal

By: Huntington T. Walker

Mr. Vice President - Land

Fidelity and Deposit Company of Maryland

Surety

By: Emily R. Terhune

Emily R. Terhune, Attorney-in-Fact





**Exhibit F**

Reclamation Bond #LPM8986618 Fidelity and Deposit Company of Maryland

**Power of Attorney  
FIDELITY AND DEPOSIT COMPANY OF MARYLAND  
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY**

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, corporations of the State of Maryland, by DAVID S. HEWETT, Vice President, and GREGORY E. MURRAY, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, does hereby nominate, constitute and appoint Scott T. POST, Bret S. BURTON, Jana M. FORREST, Tim H. HEFFEL, Desiree E. WESTMORELAND, Kathleen A. SNYDER and Emily R. TERHUNE, all of Wichita, Kansas, ~~each~~ its sole and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as such, and in its act, execute, pay and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Md., in their own proper persons. This power of attorney revokes that issued on behalf of Scott T. POST, Bret S. BURTON, Jana M. FORREST, Tim H. HEFFEL, Erica M. PLUMMER, Desiree E. WESTMORELAND, Kathleen A. SNYDER, dated June 19, 2008.

The said Assistant Secretary does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article VI, Section 2, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seals of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, this 9th day of March, A.D. 2009.

ATTEST:

**FIDELITY AND DEPOSIT COMPANY OF MARYLAND  
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY**



*Gregory E. Murray*

By:

*David S. Hewett*

Gregory E. Murray Assistant Secretary

David S. Hewett

Vice President

State of Maryland } ss:  
City of Baltimore }

On this 9th day of March, A.D. 2009, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, came DAVID S. HEWETT, Vice President, and GREGORY E. MURRAY, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and saith, that they are the said officers of the Companies aforesaid, and that the seals affixed to the preceding instrument is the Corporate Seals of said Companies, and that the said Corporate Seals and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



*Constance A. Dunn*

Constance A. Dunn

Notary Public

My Commission Expires: July 14, 2011

**Exhibit G**  
**COOPERATIVE AGREEMENT**

between

**BILL BARRETT CORPORATION**

and the

**UTAH DIVISION OF WILDLIFE RESOURCES**

for

***Mitigation Related to Oil and Gas Field Development  
on the Rabbit Gulch Wildlife Management Area***

**WHEREAS**, Bill Barrett Corporation ("BBC") and their agents/contractors, desire to construct well pads, roads, and pipelines, and drill four (4) oil and natural gas wells, said wells specifically identified as well 4-26-36 BTR, 16-21-36 BTR, 14-21-36 BTR, and 7-16-36 BTR, beginning in the Summer, 2011 and running until completion without having to undergo delays related to winter wildlife closures during the term of this agreement; and,

**WHEREAS**, in recognition of the crucial wildlife habitat values found in the area, BBC sought to coordinate early with Utah Division of Wildlife Resources (DWR) staff and to develop practicable solutions which enabled field development and also provided for compensatory mitigation to support habitat restoration benefiting wildlife; and,

**WHEREAS**, the Division has assessed wildlife habitat conditions in the area, and identified specific opportunities to compensate for unavoidable effects of oil and gas field related disturbance by instituting specific wildlife habitat restoration practices which would yield substantial benefits for wildlife; and,

**WHEREAS**, the Division in this instance feels that it would be in the best interests of wildlife to accept a commensurate payment from BBC, who have worked diligently to mitigate for their construction impacts by coordinating early with DWR staff, which would enable DWR and their cooperators to conduct habitat treatments of a type and extent which would serve wildlife and also supply BBC's compensatory mitigation.

**NOW, THEREFORE**, let this document serve to capture the essence of the agreement by BBC and DWR, to the effect that BBC has or will issue to DWR a single, **Twenty-Thousand, Eight-Hundred Dollars (\$20,800)** compensatory mitigation payment, plus a **Five-Thousand, Two-Hundred Dollars (\$5,200)** payment for each well in the process of being drilled or completed at any time between the dates of December 1 and April 15 (winter closure period) during the term of this agreement, specifically intended to enable DWR to conduct several hundred acres of habitat restoration, situated reasonably near the originally impacted wildlife habitats, as DWR determined would be most effective for benefiting wildlife populations of the area. The funds may be used for any related expense pertaining to such wildlife habitat treatments as may be conducted in the general area, but not for unrelated purposes or distantly removed locations.

The term of this agreement shall commence on the date of the last signature below, and shall terminate at midnight on April 15, 2012.

AGREED TO BY:

*James F. Karpowitz*

ACTING DIRECTOR

James F. Karpowitz, Director  
Utah Division of Wildlife Resources  
Salt Lake City, UT

• 4/4/10

Date

*Linda Braithwaite*

Linda Braithwaite, Financial Manager  
Utah Division of Wildlife Resources  
Salt Lake City, UT

3/31/10

Date



November 7, 2008

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

# 7-16-36 BTR  
Utah Division of Wildlife Resource Surface/Tribal Minerals  
SWNE, Section 16-T3S-R6W  
Duchesne County, Utah

Diana Mason, Permitting - Petroleum Technician:

Enclosed please find two copies of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well. Montgomery Archeological Consultants conducted a Class III archeological survey for this location in October 2008 and once BBC receives the final report a copy will be forwarded to your attention. EIS Environmental and Engineering Consulting conducted a "Threatened, Endangered, Candidate, and Sensitive Species Habitat Delineation Survey" on October 10, 2008. No endangered species were identified in this survey. The result of this survey is enclosed.

BBC has applied for a Right-of Way and Easement Agreement with the Utah Division of Wildlife Resource who is the current surface owner. Once this agreement is obtained, a signed copy will be provided to the Utah Division of Oil, Gas and Mining.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock  
Permit Analyst

Enclosures

RECEIVED  
NOV 12 2008  
DIV. OF OIL, GAS & MINING

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

Bill Barrett Corporation  
Drilling Program  
# 7-16-36 BTR  
Duchesne County, Utah

## **HAZARDOUS MATERIAL DECLARATION**

WELL NO. # 7-16-36 BTR - LEASE NO. BIA-EDA-2OG0005608

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

Bill Barrett Corporation  
Drilling Program  
# 7-16-36 BTR  
Duchesne County, Utah

## DRILLING PLAN

BILL BARRETT CORPORATION

# 7-16-36 BTR

SHL: SW/4 NE/4, 1679' FNL & 1390' FEL, Section 16-T3S-R6W

BHL: SW/4 NE/4, 1679' FNL & 1390' FEL, Section 16-T3S-R6W

Surface Owner: Utah Division of Wildlife Resources

Duchesne County, Utah

**1 - 3. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

| <u>Formation</u> | <u>Depth – MD</u> |
|------------------|-------------------|
| Green River      | 4,255'            |
| Douglas Creek    | 7,237'            |
| Black Shale      | 7,911'            |
| Castle Peak      | 8,072'            |
| Wasatch          | 8,813' *          |
| TD               | 10,717'           |

\*PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

**4. Casing Program**

**A) Planned Program**

| <u>Hole Size</u> | <u>SETTING DEPTH</u> |             | <u>Casing Size</u> | <u>Casing Weight</u> | <u>Casing Grade</u> | <u>Thread</u> | <u>Condition</u> |
|------------------|----------------------|-------------|--------------------|----------------------|---------------------|---------------|------------------|
|                  | <u>(FROM)</u>        | <u>(TO)</u> |                    |                      |                     |               |                  |
| 12 ½"            | surface              | 3,000'      | 9 5/8"             | 36#                  | J or K 55           | ST&C          | New              |
| 8 ¾"             | surface              | TD          | 5 ½"               | 17#                  | P-110               | LT&C          | New              |

For any liner run BBC intends to have a minimum of 200' of liner overlap.

**5. Cementing Program**

**A) Planned Program**

|                        |   |
|------------------------|---|
| 9 5/8" Surface Casing  | Approximately 770 sx Halliburton Light Premium with additives mixed at 12.7 ppg (yield = 1.82 ft <sup>3</sup> /sx) circulated to surface with 75% excess.<br>Approximately 230 sx Halliburton Premium Plus cement with additives mixed at 15.8 ppg (yield = 1.20 ft <sup>3</sup> /sx).  |
| 5 ½" Production Casing | Approximately 420 sx Halliburton Hi-Fill Modified cement with additives mixed at 10.7 ppg (yield = 2.92 ft <sup>3</sup> /sx).<br>Approximately 300 sx Halliburton Tuned Light RS-1 cement with additives mixed at 11.5 ppg (yield = 3.21 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 2,500'. |

6. **Mud Program**

| <u>Interval</u>   | <u>Weight</u> | <u>Viscosity</u> | <u>Fluid Loss<br/>(API filtrate)</u> | <u>Remarks</u>                   |
|---|---------------|------------------|--------------------------------------|----------------------------------|
| 40' – 3,000'  | 8.3 – 8.8     | 26 – 36          | NC                                   | Freshwater Spud Mud Fluid System |
| 3,000' – TD   | 8.6 – 9.2     | 42-52            | 20 cc or less                        | DAP Polymer Fluid System         |
| Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag. |               |                  |                                      |                                  |

7. **BOP and Pressure Containment Data**

| <u>Depth Intervals</u>  | <u>BOP Equipment</u>                            |
|---|---|
| 0 – 3,000'  | No pressure control required                    |
| 3,000' – TD   | 11" 5000# Ram Type BOP<br>11" 5000# Annular BOP |
| - Drilling spool to accommodate choke and kill lines;   |   |
| - Ancillary and choke manifold to be rated @ 5000 psi;  |   |
| - Ancillary equipment and choke manifold rated at 7,500 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2; |   |
| - The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.                         |   |
| - BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.         |   |

8. **Auxiliary Equipment**

- Upper kelly cock; lower Kelly cock will be installed while drilling
- Inside BOP or stab-in valve (available on rig floor)
- Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

9. **Testing, Logging and Core Programs**

|          |   |
|----------|---|
| Cores    | None anticipated;   |
| Testing  | None anticipated; drill stem tests may be run on shows of interest;   |
| Sampling | 30' to 50' samples; surface casing to TD. Preserve samples all show intervals;  |
| Surveys  | MWD as needed to land wellbore;   |
| Logging  | DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion. |

If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.

10. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5127 psi\* and maximum anticipated surface pressure equals approximately 2769 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

Bill Barrett Corporation  
Drilling Program  
# 7-16-36 BTR  
Duchesne County, Utah

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

**11. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**12. Drilling Schedule**

|                        |                                |
|------------------------|--------------------------------|
| Location Construction: | Approximately February 1, 2009 |
| Spud:                  | Approximately March 1, 2009    |
| Duration:              | 30 days drilling time          |
|                        | 45 days completion time        |



## 7-16-36 BTR Proposed Cementing Program

| <u>Job Recommendation</u>         | <u>Surface Casing</u>                  |
|-----------------------------------|--|
| <b>Lead Cement - (2500' - 0')</b> |  |
| Halliburton Light Premium         | Fluid Weight: 12.7 lbm/gal             |
| 1.0% Calcium Chloride             | Slurry Yield: 1.82 ft <sup>3</sup> /sk |
| 0.125 lbm/sk Ploy-E-Flake         | Total Mixing Fluid: 9.72 Gal/sk        |
|                                   | Top of Fluid: 0'                       |
|                                   | Calculated Fill: 2,500'                |
|                                   | Volume: 244.02 bbl                     |
|                                   | <b>Proposed Sacks: 770 sks</b>         |
| <b>Tail Cement - (TD - 2500')</b> |  |
| Premium Cement                    | Fluid Weight: 15.8 lbm/gal             |
| 2.0% Calcium Chloride             | Slurry Yield: 1.20 ft <sup>3</sup> /sk |
| 0.125 lbm/sk Ploy-E-Flake         | Total Mixing Fluid: 5.238 Gal/sk       |
|                                   | Top of Fluid: 2,500'                   |
|                                   | Calculated Fill: 500'                  |
|                                   | Volume: 48.80 bbl                      |
|                                   | <b>Proposed Sacks: 230 sks</b>         |

| <u>Job Recommendation</u>             | <u>Production Casing</u>               |
|---------------------------------------|--|
| <b>Lead Cement - (7411' - 3000')</b>  |  |
| Halliburton Hi-Fill Modified          | Fluid Weight: 10.7 lbm/gal             |
| 0.2% HR-5                             | Slurry Yield: 2.92 ft <sup>3</sup> /sk |
| 0.25 lbm/sk Poly-E-Flake              | Total Mixing Fluid: 17.26 Gal/sk       |
| 5.0 lbm/sk Gilsonite                  | Top of Fluid: 3,000'                   |
|                                       | Calculated Fill: 4,411'                |
|                                       | Volume: 218.27 bbl                     |
|                                       | <b>Proposed Sacks: 420 sks</b>         |
| <b>Tail Cement - (10717' - 7411')</b> |  |
| Halliburton Tuned Light RS-1          | Fluid Weight: 11.5 lbm/gal             |
| 0.2% Super CBL                        | Slurry Yield: 3.21 ft <sup>3</sup> /sk |
| 0.2% HR-5                             | Total Mixing Fluid: 18.56 Gal/sk       |
|                                       | Top of Fluid: 7,411'                   |
|                                       | Calculated Fill: 3,306'                |
|                                       | Volume: 163.61 bbl                     |
|                                       | <b>Proposed Sacks: 300 sks</b>         |

Well name: **BTR General**  
 Operator: **Bill Barrett Corporation**  
 String type: **Surface**  
 Location: **SWNW SEC. 21, T3S-R6W, Duchesne Co., UT**

**Design parameters:**

**Collapse**

Mud weight: 8.80 ppg

Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 60.00 °F  
 Bottom hole temperature: 97 °F  
 Temperature gradient: 1.22 °F/100ft  
 Minimum section length: 150 ft

Cement top: Surface

**Burst**

Max anticipated surface

pressure: 1,085 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 1,745 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.80 (J)

Premium: 1.80 (J)

Body yield: 1.80 (B)

Tension is based on buoyed weight.

Neutral point: 2,608 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 10,985 ft  
 Next mud weight: 10.600 ppg  
 Next setting BHP: 6,049 psi  
 Fracture mud wt: 11.200 ppg  
 Fracture depth: 3,000 ft  
 Injection pressure: 1,745 psi

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Internal Capacity (ft³) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-------------------------|
| 1       | 3000                | 9.625                   | 36                      | J-55             | ST&C                 | 3000                 | 3000                | 8.765                   | 232                     |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor   |
| 1       | 1371                | 2020                    | 1.473                   | 1745             | 3520                 | 2.017                | 119                 | 394                     | 3.311                   |

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8164  
 FAX: (303) 291-0420

Date: June-19 2008  
 Denver, Colorado

**Remarks:**

Collapse is based on a vertical depth of 3000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

**BTR General**Operator: **Bill Barrett Corporation**String type: **Production**Location: **Duchesne County, UT****Design parameters:****Collapse**

Mud weight: 10.60 ppg

**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No

Surface temperature: 70.00 °F

Bottom hole temperature: 186 °F

Temperature gradient: 1.22 °F/100ft

Minimum section length: 1,500 ft

Design is based on evacuated pipe.

**Burst:**

Design factor 1.00

Cement top: 2,000 ft

**Burst**

Max anticipated surface

pressure: 3,141 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 5,231 psi

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.80 (J)

Premium: 1.80 (J)

Body yield: 1.80 (B)

Non-directional string.

No backup mud specified.

Tension is based on buoyed weight.

Neutral point: 7,973 ft

| Run<br>Seq | Segment<br>Length<br>(ft) | Size<br>(in)                  | Nominal<br>Weight<br>(lbs/ft) | Grade                  | End<br>Finish              | True Vert<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Drift<br>Diameter<br>(in)     | Internal<br>Capacity<br>(ft³) |
|------------|---------------------------|-------------------------------|-------------------------------|------------------------|----------------------------|----------------------------|---------------------------|-------------------------------|-------------------------------|
| 1          | 9500                      | 5.5                           | 17.00                         | P-110                  | LT&C                       | 9500                       | 9500                      | 4.767                         | 327.4                         |
| Run<br>Seq | Collapse<br>Load<br>(psi) | Collapse<br>Strength<br>(psi) | Collapse<br>Design<br>Factor  | Burst<br>Load<br>(psi) | Burst<br>Strength<br>(psi) | Burst<br>Design<br>Factor  | Tension<br>Load<br>(Kips) | Tension<br>Strength<br>(Kips) | Tension<br>Design<br>Factor   |
| 1          | 5231                      | 7480                          | 1.430                         | 5231                   | 10640                      | 2.03                       | 136                       | 445                           | 3.28 J                        |

Prepared Dominic Spencer  
by: Bill BarrettPhone: (303) 312-8164  
FAX: (303) 291-0420Date: September 2, 2008  
Denver, Colorado

## Remarks:

Collapse is based on a vertical depth of 9500 ft, a mud weight of 10.6 ppg. The casing is considered to be evacuated for collapse purposes.

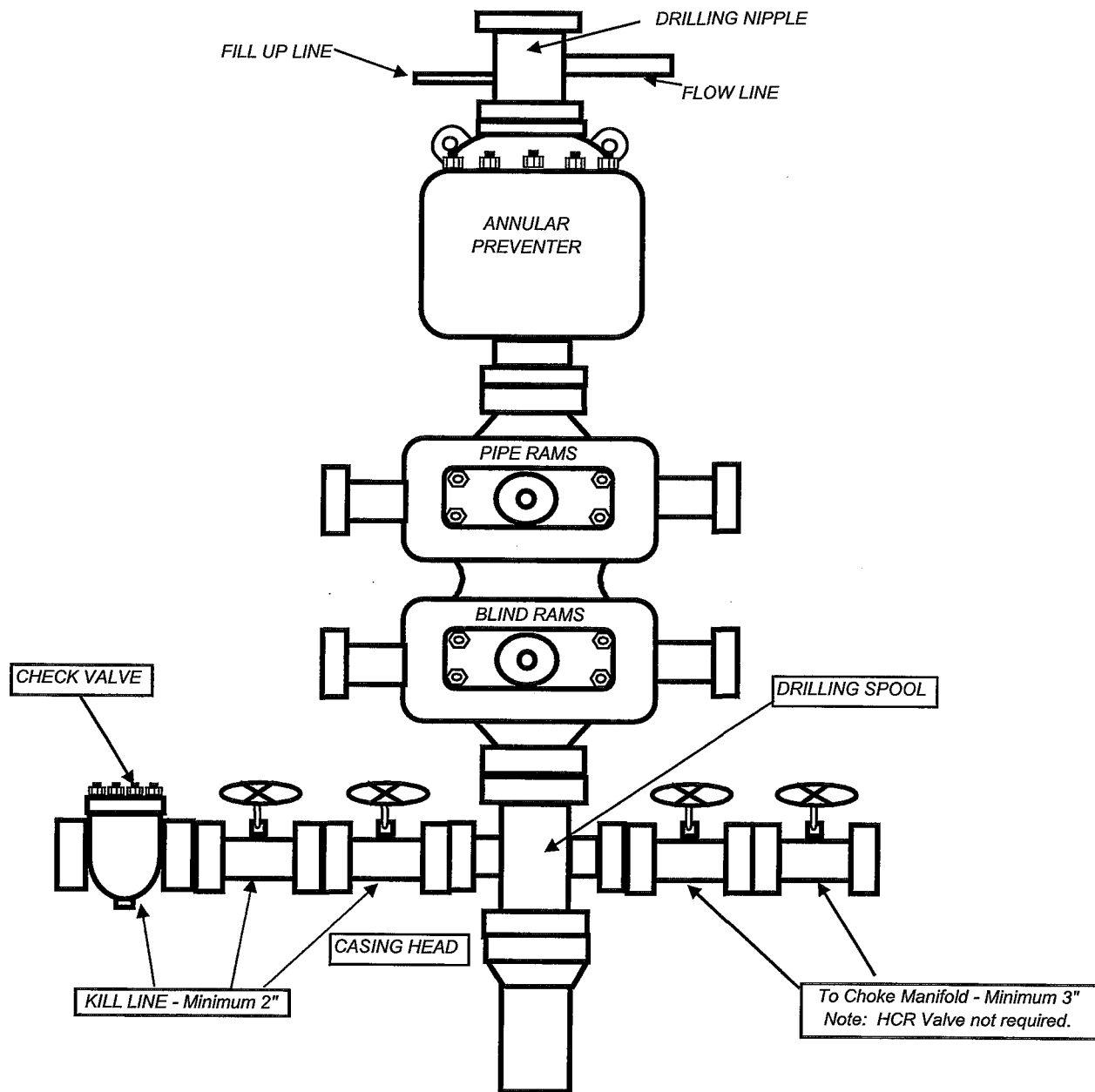
Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

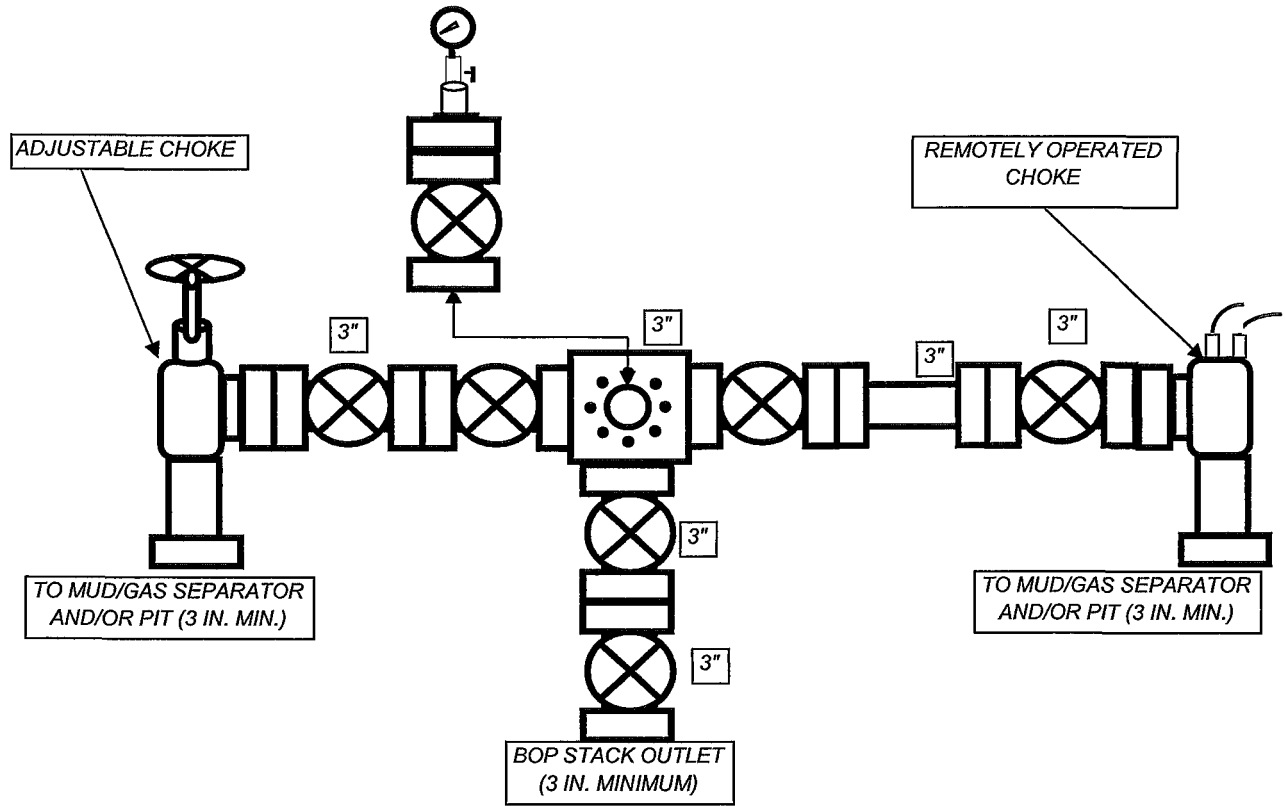
# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD



**Surface Use Plan for  
Bill Barrett Corporation's  
Development Program  
Black Tail Ridge Area  
Duchesne County, Utah**

**1. Existing Roads:**

The Black Tail Ridge Areas are located approximately 12 miles Southwest of Duchesne, Utah and extend from Township 3 South, Range 5 West, Range 6 West, and Range 7 West and the North ½ of Township 4 South, Range 5 West, Range 6 West, and Range 7 West. The specific location of a particular well pad will be shown on maps and described in the site specific APD.

The use of state and county roads under UDOT and Duchesne County Road Department maintenance is necessary to access the Project Area. Improvements to existing access roads will be noted in the site specific APD's.

**2. Planned Access Roads:**

Descriptions of the individual access road(s) will be included in the site specific APD and ROW application.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance with the UDWR.

**3. Location of Existing Wells With-In A One-Mile Radius**

Water wells – None.

Abandoned wells – SW/4, Section 10, T3S, R6W  
NE/4 Section 9, T3S, R6W  
SW/4 Section 9, T3S, R6W  
NE/4 Section 16, T3S, R6W  
SW/4 Section 16, T3S, R6W  
NE/4 Section 15, T3S, R6W

Temporarily abandoned wells – None.

Disposal wells – None.

Drilling wells – None.

Producing wells – SW/4 Section 15, T3S, R6W

Proposed Location – None.

**4. Location of Tank Batteries, Production Facilities, and Production Gathering And Service Lines:**

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will conform to DOGM standards. All facilities will be painted within six months of installation.

A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

**5. Location and Type of Water Supply**

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

**6. Source of Construction Materials:**

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from UDWR lands. If any gravel is used, it will be obtained from an approved gravel pit.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including any salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed.

Unless otherwise specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not allow discharge of liquids.

If it is determined, at the onsite, that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12-millimeters thick. The liner will overlay a felt-liner pad if rock that might tear or puncture the liner is

encountered during excavation. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash, scrap pipe, etc. that could puncture the liner will not be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. The pit liner will be protected during drilling and completion operations.

No water well will be drill on this lease. Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W. The trucked water will follow the access route described in the plat package of each APD. Production fluids will be contained in leak-proof tanks. All production fluids will be sold, recycled, or disposed of at approved disposal sites.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical self-contained sanitary-toilet will be onsite during drilling and completions.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The reserve pit fencing will be on three sides before drilling operations start. The fourth side will be fenced as soon as drilling is completed and the rig is removed. The fencing will be maintained until such time as the pits are backfilled.

**8. Ancillary Facilities:**

Garbage containers and portable toilets are the only ancillary facilities proposed. No additional ancillary facilities are foreseen in the future.

**9. Wellsite Layout:**

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface materials stockpile(s) will be included with the site specific APD and developed through a consultant.

**10. Plans for Restoration of the Surface:**



The dirt contractor will be provided with an approved copy of the surface use plan and these Standard Operating Procedures prior to commencing construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. All reclamation standards will be developed between Bill Barrett Corporation (BBC) and UDWR. Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be recontoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored as near as possible to its original line of flow.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The remaining liner will be torn and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting, unless it is determined that this location will be utilized to drill additional wells within 1 year of completing operations.

After the reserve pit has been reclaimed, diversion ditches and water bars will be used to divert precipitation runoff/runoff as appropriate.

Prior to the construction of the location, the top 6 inches or maximum available topsoil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be recontoured and the stockpiled topsoil spread over the area.

If topsoil must be stored for more than one year:

It shall be windrowed on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

It shall be broadcast seeded with the prescribed seed mixture immediately after windrowing. Seed will be drilled on the contour to an appropriate depth and the stockpile then "walked" with a dozer to cover the seed and roughen the soil to prevent erosion.

Mulching may be considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

UDWR shall be contacted for the required seed mixture. Seed will be drilled on the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

At final abandonment, BBC will follow UT-DOGM standards for final well abandonment.

**11. Surface Ownership**

The well location and proposed access road route is located on Utah Division of Wildlife Resource surface estate.

I hereby certify that Bill Barrett Corporation will apply for a surface use agreement with the Utah Division of Wildlife Resource for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof. Once this final signed agreement is in place copies will be sent to the Utah Division of Oil, Gas and Mining and the Vernal BLM Field office.

11/7/2008  
Date

Reed Haddock  
Reed Haddock – Permit Analyst  
Bill Barrett Corporation

**12. Other Information:**

The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the BBC field representative to ensure compliance.

The operator will control noxious weeds along applied access road authorizations, pipeline route authorizations, well sites or other applicable facilities

Wells drilled during the fire season (June – October) all appropriate precautions shall be instituted to ensure that fire hazard is minimized, including, but not limited to, controlling vegetation and keeping fire fighting equipment readily available during all drilling and completion operations.

Drilling rigs and/or equipment used during drilling operations on locations will not be stacked or stored on UDWR administered lands after the conclusion of drilling operations or at any other time without permission by the UDWR. If UDWR permission is obtained, such storage will only be temporary measure.

Travel will be restricted to approved travel routes.

Operator Name Bill Barrett Corporation

POD/Well Name # 7-16-36 BTR

### OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with that APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Name: Reed Haddock 11/7/03 Reed Haddock  
(Signature) (Date) (Printed)

Position Title Permit Analyst

Address 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202

Telephone (303) 312-8546 Fax (303) 291-0420

Field Representative (if not above signatory) Mr. Mike Angus

Address (if different from above) P.O. Box 3110, Roosevelt, UT 84066

Telephone (if different from above) (435) 724-8016

E-mail (optional) mangus@billbarrettcorp.com

Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.

### LEASE CERTIFICATION

Bill Barrett Corporation certifies that it is authorized by the proper lease interest owners and responsible under the terms and conditions of the lease to conduct lease operations associated with this application.

### SURFACE OWNERSHIP

Bill Barrett Corporation certifies that they will provide a copy of the Surface Use Plan of Operations to the Utah Division of Wildlife Resource surface owner of the well site location once a final signed surface use agreement is in place.

**BILL BARRETT CORPORATION  
2008 BLACK TAIL RIDGE DRILLING PROJECT**

**THREATENED, ENDANGERED, CANDIDATE, AND SENSITIVE  
SPECIES HABITAT DELINEATION**

**FOR LOCATIONS: 7-16-36 BTR, 16-16-36 BTR, 14-21-36 BTR, 16-21-36 BTR,  
3-23-36 BTR, 4-26-36 BTR, 16-26-36 BTR, 1-30-36 BTR**

**CONDUCTED**

**OCTOBER 10, 2008**

**By,**

**EIS Environmental and Engineering Consulting**

31 North Main Street \* Helper, Utah 84526

Office - (435) 472-3814 \* Toll free - (800) 641-2927 \* Fax - (435) 472-8780

eisec@preciscom.net

Bill Barrett Corporation 2008 Black Tail Ridge Drilling Project  
Habitat Delineation

## **INTRODUCTION**

Bill Barrett Corporation has contracted Environmental Industrial Services (EIS) to conduct a Threatened, Endangered, and Sensitive (TES) species habitat delineation for proposed activities in the Black Tail Ridge project area. The Bureau of Land Management (BLM) and Utah Division of Wildlife Resources (UDWR) have created a list of TES species that may occur in the project area (Table 1). A habitat and species inventory was required prior to disturbance for the protection of these species. The area surveyed covered the proposed 7-16-36 BTR, 16-16-36 BTR, 14-21-36 BTR, 16-21-36 BTR, 3-23-36 BTR, 4-26-36 BTR, 16-26-36 BTR, 1-30-36 BTR pad locations, access roads and pipeline routes.

The proposed wells, pipelines and power lines are found in Duchesne County, Utah near Starvation Reservoir (see Attachment 1). The locations are in Sections 14, 15, 16, 21, 23, 26, and 30, Township (T) 3 South (S), Range (R) 6 West (W). The project locations are within land owned by the state and administered by the Utah Division of Wildlife Resources.

## **METHODS**

On October 10, EIS biologists, Derris Jones and Matthew Serfustini, completed a walk over of the access roads, pipeline routes, and pad locations. All pipeline and power line routes were walked in a zigzag pattern to better cover the area. For inventory purposes, the area within 100 feet on either side of the pipeline was surveyed. The soil type, vegetation, and topography were noted. Had a TES species been located, a photograph of the specimen and habitat would have been taken. A GPS coordinate would have been recorded and a flag planted adjacent to the specimen as well.

## **GENERAL HABITAT DESCRIPTION**

Each of these locations is found on surficial older alluvium and colluvium, the Duchesne River, Uinta, Bridger, or Crazyhollow Formations. The well pads, access roads and pipelines range between 5,850 and 6,490 feet in elevation. The project locations are composed of Colorado Plateau pinyon-juniper shrublands and woodlands, intermountain basins big sagebrush shrubland and mixed low sagebrush shrublands. The attached spreadsheet (Attachment 2) describes the vegetation community for each specific location.

**Table 1: TES Species found in Duchesne County, Utah**

| <b>Common Name</b>                | <b>Scientific Name</b>                   | <b>Status</b>  |
|-----------------------------------|--|----------------|
| Bald Eagle                        | <i>Haliaeetus leucocephalus</i>          | S              |
| Barneby Ridge-cress               | <i>Lepidium barnebyanum</i>              | E              |
| Black-footed Ferret - Unconfirmed | <i>Mustela nigripes</i>                  | E Experimental |
| Black Swift                       | <i>Cypseloides niger</i>                 | S              |
| Bluehead Sucker                   | <i>Catostomus discobolus</i>             | C              |
| Bonneville Cutthroat Trout        | <i>Oncorhynchus clarkia utah</i>         | C              |
| Bonytail - Possibly               | <i>Gila elegans</i>                      | E              |
| Burrowing Owl                     | <i>Athene cunicularia</i>                | S              |
| Canada Lynx                       | <i>Lynx canadensis</i>                   | T              |
| Colorado Pikeminnow - Possibly    | <i>Ptychocheilus lucius</i>              | E              |
| Colorado River Cutthroat Trout    | <i>Oncorhynchus clarkia pleuriticus</i>  | C              |
| Duchesne Greenthread              | <i>Thelesperma pubescens caespitosum</i> | S              |
| Ferruginous Hawk                  | <i>Buteo regalis</i>                     | S              |
| Flannelmouth Sucker               | <i>Catostomus latipinnis</i>             | C              |
| Fringed Myotis                    | <i>Myotis thysanodes</i>                 | S              |
| Goodrich's Blazingstar            | <i>Mentzelia goodrichii</i>              | S              |
| Goodrich's Penstemon              | <i>Penstemon goodrichii</i>              | S              |
| Graham Beardtongue                | <i>Penstemon grahamii</i>                | T Proposed     |
| Greater Sage Grouse               | <i>Centrocercus urophasianus</i>         | S              |
| Humpback Chub - Possibly          | <i>Gila cypha</i>                        | E              |
| Kit Fox                           | <i>Vulpes macrotis</i>                   | S              |
| Lewis's Woodpecker                | <i>Melanerpes lewis</i>                  | S              |
| Long-billed Curlew                | <i>Numentius americanus</i>              | S              |
| Northern Goshawk                  | <i>Accipiter gentiles</i>                | C              |
| Pariette Cactus                   | <i>Sclerocactus brevispinus</i>          | S              |
| Razorback Sucker - Possibly       | <i>Xyrauchen texanus</i>                 | E              |
| Roundtail Chub                    | <i>Gila robusta</i>                      | C              |
| Short-eared Owl                   | <i>Asio flammeus</i>                     | S              |
| Shrubby Reed-mustard              | <i>Glaucocarpum suffrutescens</i>        | E              |
| Smooth Greensnake                 | <i>Opheodrys vernalis</i>                | S              |
| Spotted Bat                       | <i>Euderma maculatum</i>                 | S              |
| Townsend's Big-eared Bat          | <i>Corynorhinus townsendii</i>           | S              |
| Uinta Basin Hookless Cactus       | <i>Sclerocactus glaucus</i>              | T              |
| Untermann Daisy                   | <i>Erigeron untermannii</i>              | S              |
| Ute Ladies'-tresses               | <i>Spiranthes diluvialis</i>             | T              |
| Yellow-billed Cuckoo              | <i>Coccyzus americanus</i>               | C              |

T – Threatened, E – Endangered, S – Sensitive, C - Candidate

## REQUIRED HABITAT FOR TES SPECIES

**Bald Eagle (*Haliaeetus leucocephalus*)** During the breeding season bald eagles are closely associated with water, along coasts, lakeshores, and/or riverbanks. During the winter bald eagles tend to concentrate wherever food is available. This usually means open water where fish and waterfowl can be caught. They also winter on more upland areas feeding on small mammals and deer carrion. At winter areas, bald eagles commonly roost in large groups. These communal roosts are located in forested stands that provide protection from harsh weather.

Through annual surveys completed by the Utah Division of Wildlife Resources (UDWR) no bald eagles are known to nest in Duchesne County, they can often be found near lakes and reservoirs, as well as within upland areas within the area between late fall and early spring.

**Barneby Ridge-Cress (*Lepidium barnebyanum*)** Areas suspected to contain potential habitat for Barneby peppergrass consist of white shale outcrops on the Uinta formation in pinyon-juniper (mainly on ridge crests) between 6,200 and 6,500 feet elevation, flowering from May to June.

**Black-footed Ferret (*Mustela nigripes*)** The relationship between black-footed ferrets and prairie dogs has long been known. Black-footed ferrets live in the burrows made by prairie dogs and probably exploit these rodents as their major food source. The high biomass of potential prey species and the abundance of burrows are equally important factors in attracting black-footed ferrets to this habitat.

**Black Swift (*Cypseloides niger*)** The black swift occurs in mountainous regions of the western US. Little is known about this species's historic range. In Utah, breeding locations have been found in the Bridal Veil Falls and Aspen Grove areas. They breed from May to September, but may be found in the state in October. Black swifts nest near or behind waterfalls between 6,000 and 11,500 feet in elevation. Nesting habitat is in mountain riparian on ledges, cracks, or crevices near the spray of waterfalls. Sites are often surrounded by conifer or spruce-fir forests and may include shrub, aspen or alpine components.

**Bluehead Sucker (*Catostomus discobolus*)** The bluehead sucker is a benthic (bottom dwelling) species with a mouth modified to scrape algae (the primary food of the bluehead sucker) from the surface of rocks. Members of the species spawn in streams during the spring and summer. Fast flowing water in high gradient reaches of mountain rivers has been identified as important habitat for bluehead sucker. The bluehead sucker is native to parts of Utah, Idaho, Arizona, New Mexico, and Wyoming. Specifically, the species occurs in the upper Colorado River system, the Snake River system, and the Lake Bonneville basin.

**Bonneville Cutthroat Trout (*Oncorhynchus clarkia utah*)** The Bonneville cutthroat trout is a subspecies of the cutthroat trout that are native to the Bonneville Basin of Utah, Wyoming, Idaho, and Nevada. Populations have been located in Bear Lake and Strawberry Reservoir.



**Bonytail (*Gila elegans*)** Historically bonytail chubs exist throughout the Colorado River drainage. Recently, isolated captures of bonytail chubs have been made in the Colorado River basin but recruitment to the population is extremely low or nonexistent. The decline of the bonytail chub is attributed to dam construction and associated water temperature changes. Other factors contributing to the reduced numbers include flow depletion, hybridization, stream alterations associated with dam construction, and the introduction of non- native fish species. The bonytail chub is an omnivore, feeding mostly on terrestrial insects, plant debris and algae and begins to spawn at five to seven years of age.

**Burrowing Owl (*Athen cunicularia*)** Burrowing owls make their home in open, dry, treeless plains, deserts and farmlands. This species may be found in the prairie regions of western Canada, the United States, Central and South America. Burrowing owls are also welcome residents on farms and ranches, because they prey on rodents and insects that are harmful to agricultural interests.

**Canada Lynx (*Lynx canadiensis*)** In the western States lynx live in spruce/fir forests at high elevations. It is found in Canada and Alaska to Maine, the Rocky Mountains, and Great Lakes region.

**Colorado Pike Minnow (*Ptychocheilus lucius*)** The Colorado pike minnow had a historic range from Green River, Wyoming to the Gulf of California, but the species is now confined to the Upper Colorado River basin mainstream and larger tributaries. The Lower Green River between the Price and San Rafael Rivers is known to contain an abundant population of this species. The species decline can be attributed to direct loss of habitat, changes in water flow and temperature, blockage of migrations, and interactions with introduced fish species. Colorado pike minnow adults are thought to prefer deepwater eddies and pools or other areas adjacent to the main water current, whereas the young inhabit shallow, quiet backwaters adjacent to high flow areas. This species feeds on invertebrates while young but gradually become piscivorous after one year.

**Colorado River Cutthroat Trout (*Oncorhynchus clarkia pleuriticus*)** Colorado cutthroat trout require cool, clear water in streams with well vegetated banks, which provides cover and bank stability. Deep pools and structures such as boulders and logs provide instream cover. This species is believed to have formerly been widespread in lakes, rivers, and streams in Utah, however now it is limited to isolated headwater streams and other rigorous environments where other species such as rainbow trout and Yellowstone cutthroat trout have not been introduced.

**Duchesne Greenthread (*Thelesperma pubescens* Dorn var. *caespitosum*)** Areas suspected to contain potential habitat for Duchesne greenthread are the white shale slopes and ridges of the Green River Formation at around 5,900 feet elevation.

**Ferruginous Hawk (*Buteo regalis*)** The preferred habitat for ferruginous hawks is the arid, semiarid and grassland regions of North America. The countryside is open, level, or rolling prairies; foothills or middle elevation plateaus largely devoid of trees; and cultivated shelterbelts or riparian corridors. Rock outcrops, shallow canyons, and gullies may characterize some

habitats. These hawks avoid high elevations, forest interiors, narrow canyons, and cliff areas. During the breeding season, the preference is for grasslands, sage, and other arid shrub country.

**Flannelmouth Sucker (*Catostomus latipinnis*)** Flannelmouth suckers are benthic (bottom dwelling) fish that primarily eat algae, although invertebrates and many types of plant matter are also consumed. The species spawns in streams over gravelly areas during the spring and early summer. Flannelmouth suckers prefer large rivers, where they are often found in deep pools of slow flowing, low gradient reaches. The flannelmouth sucker is native to the Colorado River system of the western United States and northern Mexico. In Utah, the species occurs in the main-stem Colorado River, as well as in many of the Colorado River's large tributaries. Flannelmouth suckers are usually absent from impoundments.

**Fringed Myotis (*Myotis thysanodes*)** This is a small bat that occurs in most of the western United States. It inhabits caves, mines, and buildings, most often in desert and woodland areas.

**Goodrich's Blazing Star (*Mentzelia goodrichii*)** Areas suspected to contain potential habitat for Goodrich's blazing star consist of steep, white, marly calciferous shale of the Green River Formation and along escarpment of Willow and Argyle canyons, at 8,100 - 8,800 feet, in Duchesne County in scattered limber and pinyon pine, Douglas-fir, mountain mahogany, and rabbitbrush communities at 8,100 - 8,800 feet elevation and blooms from July to August.

**Goodrich Penstemon (*Penstemon goodrichii*)** Areas suspected to contain potential habitat for Goodrich penstemon consist of blue-gray to reddish, clay impregnated badlands of the Duchesne River formation in shadscale and juniper-mountain mahogany communities at 5,590 to 6,215 feet elevation. Flowering from late May through June.

**Graham Beardtongue (*Penstemon grahamii*)** Areas suspected to contain potential habitat for Graham beardtongue consist of sparsely vegetated desert shrub and pinyon-juniper communities on shale talus knolls between 4,600 and 6,700 feet elevation, flowering from May to mid June.

**Greater Sage Grouse (*Centrocercus urophasianus*)** This species inhabits sagebrush plains, foothills, and mountain valleys. Sagebrush is the predominant plant of quality habitat.

**Humpback Chub (*Gila cypha*)** The humpback chub is believed to have inhabited all of the large rivers of the upper Colorado River basin and canyons of the lower Colorado River basin. Presently the humpback chub can be located in and above the Grand Canyon, Arizona, and the major tributaries to the Colorado River. The states stream alteration, including dewatering, dams and channelization, are factors causing the decline of the species. The humpback chub normally lives adjacent to high velocity flows, where they consume plankton and small invertebrates.

**Kit Fox (*Vulpes macrotis*)** The kit fox occurs in open prairie, plains, and desert habitats. It is native to much of the western United States although it not overly abundant in Utah.

**Lewis's Woodpecker (*Melanerpes lewis*)** This woodpecker excavates holes in tall trees. It will nest in utility poles or stumps. Ponderosa pine, cottonwood, and sycamore trees are preferred.

**Long-Billed Curlew (*Numenius americanus*)** The long-billed curlew breeds in central Utah, and winters from coastal Washington to the southern United States. It is common in central and more northern valleys and less common in the Colorado River drainage. It lives and breeds in higher and drier meadowlands than other shorebird species. They require short grass, bare ground, shade and abundant vertebrate prey. Mixed fields of grass with elevated points are desired. Uncultivated rangelands and pastures support most of the continental curlew breeding populations.

**Northern Goshawk (*Accipiter gentiles*)** Northern goshawks are found in variety of forest habitat types that are generally mature stands with complex structures that provide certain habitat characteristics including: 1) multiple canopy levels with high canopy closure, 2) relatively open understories, snags and downed woody debris, 3) small openings, and 4) a surface water source. It prefers mature forests and riparian areas.

**Pariette Cactus (*Sclerocactus brevispinus*)** This cactus grows in Saline and alkaline soils in clay badlands in Duchesne and Uintah Counties of Utah.

**Razorback Sucker (*Xyrauchen texanus*)** Historic distribution of the razorback sucker was mainly along the mainstream of the Colorado, Green and San Juan Rivers. They presently only occur in a portion of their former range in these rivers and are normally found in water four to ten feet deep with area of strong currents and backwaters. The razorback sucker feeds on small invertebrates, and animals and organic debris on the river bottom. The decline of the razorback sucker can be attributed to the land and water uses, particularly dam construction and the associated change in flow regimes and river channel characteristics.

**Roundtail Chub (*Gila robusta*)** Roundtail chub eat terrestrial and aquatic insects, mollusks, other invertebrates, fishes, and algae. The species spawns over areas with gravel substrate during the spring and summer. Eggs are fertilized in the water, and then drop to the bottom where they adhere to the substrate until hatching about four to seven day later. The roundtail chub is a fairly large minnow native to the Colorado River system of the western United States. The species prefers large rivers, and is most often found in murky pools near strong currents in the main-stem Colorado River, and in the Colorado River's large tributaries.

**Short-Eared Owl (*Asio flammeus*)** This owl is usually found in grasslands, shrublands, and other open habitats. It breeds in Canada and the northern half of the US. It winters in Mexico, however, many are year-long residents in their breeding habitat. The bird is rare in the northern half of Utah. It is mostly in the northwestern portion of the state.

**Shrubby Reed-Mustard (*Schoenocrambe suffrutescens*)** Areas suspected to contain potential habitat for shrubby reed-mustard consist of calcareous shale of the Green River Shale formation in shadscale, pygmy sagebrush, mountain mahogany, juniper, and other mixed desert shrub communities between 5,400 and 6,000 feet elevation, flowering from May to mid August.

**Smooth Greensnake (*Opheodrys vernalis*)** This species is found in northeastern and western US. In Utah, it is found in the Wasatch, Uinta, Abajo, and La Sal Mountains. It prefers moist habitats such as grassy meadows.

**Spotted Bat (*Euderma maculatum*)** Habitat for this species ranges from deserts to forested mountains throughout Utah. Caves and rock crevices provide locations for roosts and hibernation.

**Townsend's Big-Eared Bat (*Corynorhinus townsendii*)** This bat lives in western North America. In Utah, it is found below 9,000 feet. It is found near forested areas. Hibernation and roosting locations are caves, mines, and buildings.

**Uinta Basin hookless Cactus (*Sclerocactus glaucus*)** The Uinta Basin hookless cactus is known to occur in Duchesne, Uintah, and northern Carbon counties. The cactus is found occupying gravelly hills and terraces on alluvium soils. They live in cold shrub communities between 4,700 and 6,000 feet in elevation. They flower between the months of May and June. The cactus has all straight spines and the principle spine often arches upward.

**Untermann Daisy (*Erigeron untermannii*)** This grows in pinyon-juniper communities, around mountain mahogany, limber and bristlecone pine and sagebrush communities on calcareous shales and sandstones of the Uinta and Green River Formations between 7,000 and 9,400 feet in elevation. It flowers from May until June.

**Ute Ladies Tresses (*Spiranthes diluvialis*)** Areas suspected to contain potential habitat for Ute ladies' tresses consist of areas along streams, bogs, and open seepage areas in cottonwood, tamarisk, willow, and pinyon-juniper communities between 4,400 and 6,810 feet elevation, flowering from late July to September.

**Yellow-Billed Cuckoo (*Coccyzus americanus*)** Yellow-billed cuckoos are considered a riparian obligate and are usually found in large tracts of cottonwood/willow habitats with dense sub-canopies below 33 feet. Nesting habitat is classified as dense lowland riparian characterized by a dense sub-canopy or shrub layer (regenerating canopy trees, willows, or other riparian shrubs) within 300 feet of water. Over story in these habitats may be either large, gallery-forming trees 33 to 90 feet) or developing trees 10 to 30 feet, usually cottonwoods. Nesting habitats are found at low to mid-elevations (2,500 to 6,000 feet) in Utah. Cuckoos may require large tracts 100 to 200 acres of contiguous riparian nesting habitat; however, cuckoos are not strongly territorial and home ranges may overlap during the breeding season.

## RESULTS

**Bald Eagle (*Haliaeetus leucocephalus*)** The bald eagle is not known to nest in Duchesne County. Starvation Reservoir is in close proximity to the project areas, however the bird was not seen and is not likely to be found in the area.

**Barneby Ridge-Cress (*Lepidium barnebyanum*)** The project areas are within the desired elevation and are found on the Uinta Formation. However, the calcareous soils required by this species were not present at the sites.

**Black-footed Ferret (*Mustela nigripes*)** Prairie dog colonies were not found in any of the locations. Ferrets desire burrows and the food source of prairie dogs. No ferrets were seen during the survey.

**Black Swift (*Cypseloides niger*)** The project areas are at the lowest elevation this species is said to inhabit. No waterfalls were present at the locations, and there are no aspen or other alpine components in the vegetation. This species is not likely to exist in the project areas.

**Bluehead Sucker (*Catostomus discobolus*)** There are no deep rivers through the project locations. This species is not within the project locations. No water systems will be affected with this project.

**Bonneville Cutthroat Trout (*Oncorhynchus clarkia utah*)** The nearest known location of this species in Strawberry Reservoir over 26 miles away from the project locations. This species is not likely to be found in the project area.

**Bonytail (*Gila elegans*)** No rivers flow through the project areas; this species is not in the project areas.

**Burrowing Owl (*Athen cunicularia*)** There were no open fields or burrows in the project areas. This species is not likely to live in the project locations.

**Canada Lynx (*Lynx canadiensis*)** There are no spruce-fir components in the project areas and the elevation is too low for the species requirements.

**Colorado Pike Minnow (*Ptychocheilus lucius*)** This species is not likely to be found in the project areas; no rivers are present.

**Colorado River Cutthroat Trout (*Oncorhynchus clarkia pleuriticus*)** No rivers flow through the project areas; this species is not in the project areas.

**Duchesne Greenthread (*Thelesperma pubescens* Dorn var. *caespitosum*)** The project locations are not on the Green River formation and are not likely to occur in the area.

**Ferruginous Hawk (*Buteo regalis*)** Habitat for this species does not occur in the project areas. The project locations are not considered grasslands and are not desirable habitat for the bird.

**Flannelmouth Sucker (*Catostomus latipinnis*)** This species is not likely to be found in the project areas; no rivers are present.

**Fringed Myotis (*Myotis thysanodes*)** In the project areas, there are no caves, mines, or rock crevices to suit the needs of this species. No evidence of this species was seen during the survey. It is not likely to be found in the area.

**Goodrich's Blazing Star (*Mentzelia goodrichii*)** The project location is at lower elevations than the species requirements and is not on the Green River formations.

**Goodrich Penstemon (*Penstemon goodrichii*)** Habitat for this species was present, but no evidence or traces of this species was found during the surveys.

**Graham Beardtongue (*Penstemon grahamii*)** Habitat for this species was present, but no evidence or traces of this species was found during the surveys.

**Greater Sage Grouse (*Centrocercus urophasianus*)** The shrublands found in the project location are not adequate for sage grouse needs. This species is not likely to be found in the area.

**Humpback Chub (*Gila cypha*)** This species is not likely to be found in the project areas; no rivers are present.

**Kit Fox (*Vulpes macrotis*)** There are not open prairies found in the project area. Drainages and crevices needed for kit fox dens are not present and no burrows or any other evidence of the species was seen during the survey.

**Lewis's Woodpecker (*Melanerpes lewis*)** Habitat for this species is not present at any of the locations. Ponderosa pine, cottonwood, and sycamore trees are not found in the project area. This species is not likely to occur in the project area.

**Long-Billed Curlew (*Numenius americanus*)** Habitat for this species is not found at any of the locations. There are no open prairies or grasslands.

**Northern Goshawk (*Accipiter gentiles*)** The goshawk is not likely to nest in the project area. There are no multiple canopies in the pinyon and juniper or riparian areas. The trees lack height and density needed.

**Pariette Cactus (*Sclerocactus brevispinus*)** Clay badlands are not present in the project areas; the cactus is not likely to be found.

**Razorback Sucker (*Xyrauchen texanus*)** This species is not likely to be found in the project areas; no rivers are present.

**Roundtail Chub (*Gila robusta*)** This species is not likely to be found in the project areas; no rivers are present.

**Short-Eared Owl (*Asio flammeus*)** Habitat for this species is not favorable at the project locations. Open grasslands are not found. This species is not likely to be found in the area.

**Shrubby Reed-Mustard (*Schoenocrambe suffrutescens*)** The project location is not on the Green River formation. Although plant communities at the locations are similar to the species requirements, the shrubby reed-mustard is not likely to exist in the area. No specimens or remains were seen during the surveys.

**Smooth Greensnake (*Opheodrys vernalis*)** Moist grassy meadows are not found in the project area. The snake is not likely to exist at the project locations.

**Spotted Bat (*Euderma maculatum*)** In the project area, there are no caves, mines, or rock crevices to suit the needs of this species. No evidence of this species was seen during the survey. It is not likely to be found in the area.

**Townsend's Big-Eared Bat (*Corynorhinus townsendii*)** In the project areas, there are no caves, mines, or rock crevices to suit the needs of this species. No evidence of this species was seen during the survey. It is not likely to be found in the area.

**Uinta Basin Hookless Cactus (*Sclerocactus glaucus*)** Favorable habitat for this species is found in the project area. No evidence of the species occurring in the area was found during the surveys.

**Untermann Daisy (*Erigeron untermannii*)** The elevation and pinyon-juniper community found within the project area can support the possibility of this species occurring at the locations. No evidence of the species was found during the surveys.

**Ute Ladies Tresses (*Spiranthes diluvialis*)** There are no seeps, springs, or bogs found in the project locations. This species is not likely to exist at the locations.

**Yellow-Billed Cuckoo (*Coccyzus americanus*)** Riparian communities that this species requires are not present. There is no overstory canopy or dense understory. This species does not nest in the project area.

## **CONCLUSIONS**

Favorable habitat for the Untermann daisy, Uinta Basin hookless cactus, Graham beardtongue, and Goodrich penstemon is present at the project locations, however, no specimens or residual stems, stalks, or leaves were found during the survey. Habitat requirements of the other species mentioned are not present.

## **EIS STAFF**

Staff who were involved with the survey of these locations verify the survey completion and concur with the results and conclusions of this document.

Derris Jones

Matthew Serfustini

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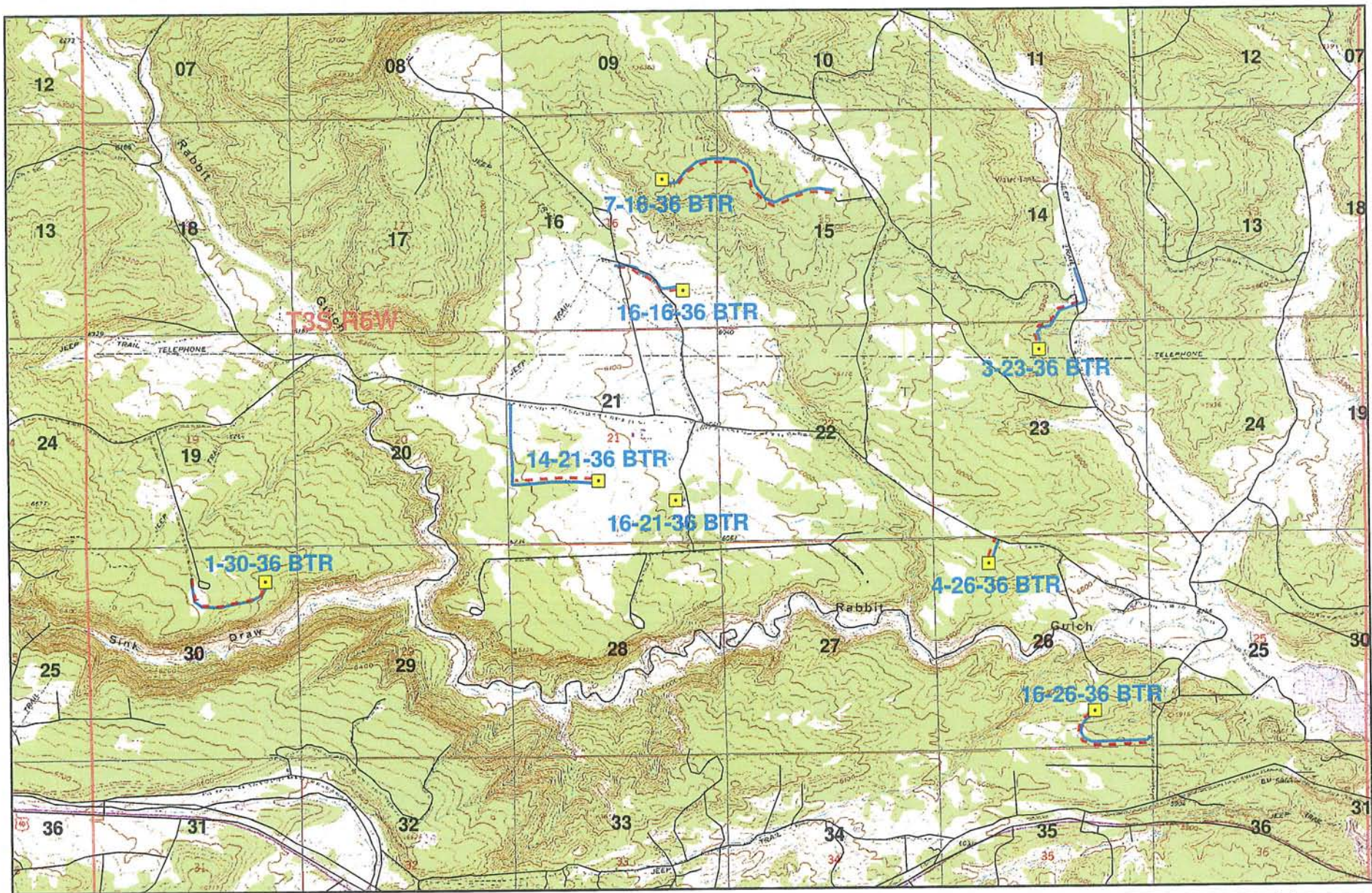
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**ATTACHMENT 1**  
**PROJECT LOCATION MAPS**





1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202

Environmental  
Industrial  
Services  
Environmental Engineering & Consulting

31 North Main Street  
Helper, Utah 84526  
(435) 472-3814  
fax (435) 472-8780  
eisecc@preciscorn.net

## Legend

- Surveyed Wells
- Surveyed Pipe Line
- Surveyed Road

## Black Tail Ridge Drilling Program TES Habitat Delineation

Oct 10,  
2008



Miles  
0 0.25 0.5 1 1.5



**ATTACHMENT 2**  
**HABITAT DESCRIPTION SPREADSHEET**

**Bill Barrett Corporation**  
**2008 Black Tail Ridge Drilling Project**  
**Habitat Description**

| Well Number  | Vegetation  | Soil  | Comments   | Elevation (Feet) | Sections | Township (S) | Range (W) |
|--------------|---|---|--|------------------|----------|--------------|-----------|
| 7-16-36 BTR  | Mature pinion, juniper, sagebrush, four-wing saltbrush, winterfat, shadscale, rabbit brush, bitterbrush, birch leaf mountain mahogany, ephedra spp., goosefoot, Cryptanth spp., prickly pear, halogeton, claret cup, Penstemon spp., Russian thistle, Aster spp., mustard spp., Indian ricegrass, crested wheatgrass, needle and thread grass, cheat grass. Forbs cover 3%, 30% tree cover. | Soft sand. Tan-Pink. Some organic growth. 5-10% slopes.       | Majority of access road is on an existing two track  | 6210-6370        | 15, 16   | 3            | 6         |
| 16-16-36 BTR | Few pinion, juniper, sagebrush, four-wing saltbrush, winterfat, shadscale, rabbit brush, snakeweed, greasewood, prickly pear, halogeton, plantago, globemallow, Russian thistle, Aster spp., mustard spp., Indian ricegrass, crested wheatgrass, needle and thread grass, blue grama, bottlebrush squirrel tail. 60% vegetation cover. Shrubland with moderately dense grass growth.        | Sandy loam  | Existing dry stock pond was found adjacent to access road. Majority of road is on an existing two track. | 6050-6110        | 16       | 3            | 6         |
| 14-21-36 BTR | Pinion, juniper, sagebrush, snakeweed, fringe sagebrush, greasewood, prickly pear, mustard spp., goosefoot, Aster spp., Penstemon spp., Eriogonum spp., globemallow, bottlebrush squirrel tail, needle and thread grass, Indian ricegrass, cheat grass. Sagebrush die off. 60% and 80% vegetation cover mostly grasses and sagebrush.   | Tan sandy loam overall 0-3% slope.                            |  | 6130-6210        | 21       | 3            | 6         |
| 16-21-36 BTR | Pinion, juniper, sagebrush, snakeweed, prickly pear, mustard spp., Aster spp., Cryptanth spp., goosefoot, Indian ricegrass, bottlebrush squirrel tail, needle and thread grass, cheat grass. 20% pinion-juniper cover, 1% forb and grass cover on northeast half. 60% grass cover on southwest half.  | Sandy loam with some sandstone bedrock exposed. 5-10% slopes. |  | 6080-6090        | 21       | 3            | 6         |

| Well Number  | Vegetation  | Soil  |  | Elevation (Feet) | Sections | Township (S) | Range (W) |
|--------------|---|---|--|------------------|----------|--------------|-----------|
| 3-23-36 BTR  | Mature pinion, juniper, sagebrush, four-wing saltbrush, winterfat, shadscale, greasewood, birch leaf mountain mahogany, yucca, goosefoot, prickly pear, halogeton, Penstemon spp., Russian thistle, Eriogonum spp., mustard spp., bottlebrush squirrel tail, galetta, crested wheatgrass, needle and thread grass, cheat grass. Pad has 25% vegetation cover.   | Sand loam with some exposed sandstone bedrock. Organic soils and lichen cover at least 10%. |  | 5850-5910        | 14, 23   | 3            | 6         |
| 4-26-36 BTR  | Mature pinion, juniper, sagebrush, four-wing saltbrush, winterfat, rabbit brush, bitterbrush, birch leaf mountain mahogany, goosefoot, Cryptanth spp., prickly pear, halogeton, Penstemon spp., Russian thistle, aster spp., mustard spp., Eriogonum spp., Indian ricegrass, crested wheatgrass, needle and thread grass, galetta, blue grama, cheat grass. 20% and 40% vegetation cover.   | Sandy loam with 3-15% slopes and some sandstone bedrock outcrops.                           | Previous disturbance. Pinion and juniper chaining and grass seeding. | 5900-5930        | 26       | 3            | 6         |
| 16-26-36 BTR | Mature pinion, juniper, sagebrush, four-wing saltbrush, winterfat, shadscale, bitterbrush, yucca, snakeweed, rabbit brush, bitterbrush, birch leaf mountain mahogany, ephedra spp., goosefoot, Cryptanth spp., prickly pear, halogeton, Penstemon spp., Russian thistle, Astragalus spp., aster spp., mustard spp., Eriogonum spp., Indian ricegrass, bottlebrush squirrel tail, crested wheatgrass, needle and thread grass, galetta, blue grama, cheat grass. Spotted knapweed found along access road. Vegetation cover 60%. | Sandy loam with small sandstone cobble and some exposed sandstone bedrock.                  | Previous pinion and juniper reduction and grass seeding.             | 5880-5930        | 26       | 3            | 6         |
| 1-30-36 BTR  | Mature pinion and juniper, sagebrush, rabbitbrush, snakeweed, greasewood, birch leaf mountain mahogany, four wing saltbrush, halogeton, Eriogonum spp., mustard spp., aster spp., prickly pear, goosefoot, claret cup, Russian thistle, Cryptantha spp., crested wheat grass, bottlebrush squirrel tail, Indian ricegrass. 50% vegetation cover mostly grasses, and mountain mahogany. Access road was mostly pinion and juniper woodland with sparse understory.   | Light gray sand with sandstone cobble and rocks. 10-20% slopes.                             |  | 6380-6490        | 30       | 3            | 6         |

**ATTACHMENT 3  
PHOTOGRAPHS**

BBC Black Tail Ridge Drilling Project  
Threatened, Endangered, and Sensitive Species Habitat Delineation Photographs



7-16-36 Center Stake Facing East



16-16-36 Access Road Facing East



16-16-36 Center Stake Facing East



14-21-36 Center Stake Facing East





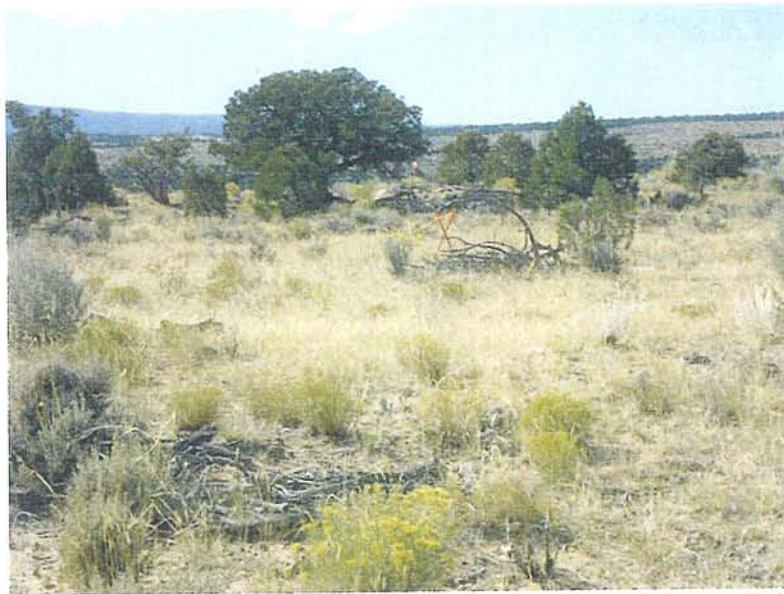
16-21-36 Center Stake Facing Southwest



3-23-36 Center Stake Facing Northeast



3-23-36 Access Road Facing Southwest



4-26-36 Access Road Into Pad Facing South





16-26-36 Center Stake Facing Southwest



1-30-36 Access Road Facing East

BILL BARRETT CORPORATION  
#7-16-36 BTR  
SECTION 16, T3S, R6W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTELY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE PROPOSED WELL LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 12.65 MILES.



# BILL BARRETT CORPORATION

#7-16-36 BTR

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 16, T3S, R6W, U.S.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

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TOPOGRAPHIC  
MAP

10 10 08  
MONTH DAY YEAR

TAKEN BY: D.R.

DRAWN BY: Z.L.

REVISED: 00-00-00

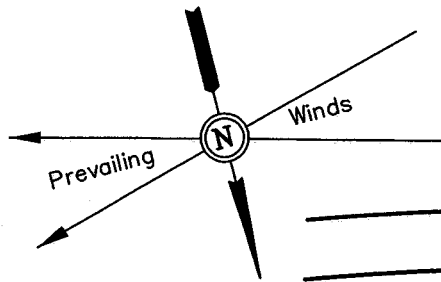
PHOTO

# BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

#7-16-36 BTR  
SECTION 16, T3S, R6W, U.S.B.&M.  
1679' FNL 1390' FEL

SCALE: 1" = 60'  
DATE: 10-15-08  
DRAWN BY: S.L.



Proposed Access Road

Approx.  
Top of  
Cut Slope

C-12.7'  
El. 309.0'

Round Corners  
as Needed

### NOTE:

Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.



El. 306.9'  
C-18.6'  
(Btm. Pit)

RESERVE PIT  
8' DEEP

Total Pit Capacity  
W/2' of Freeboard  
= 15,020 Bbls.±  
Total Pit Volume  
= 4,390 Cu. Yds

El. 307.8'  
C-19.5'  
(Btm. Pit)

Reserve Pit Backfill  
& Spoils Stockpile

Elev. Ungraded Ground at Location Stake = 6298.4'

Elev. Graded Ground at Location Stake = 6296.3'

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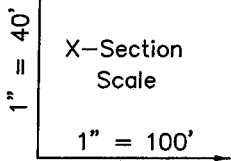
# BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

#7-16-36 BTR

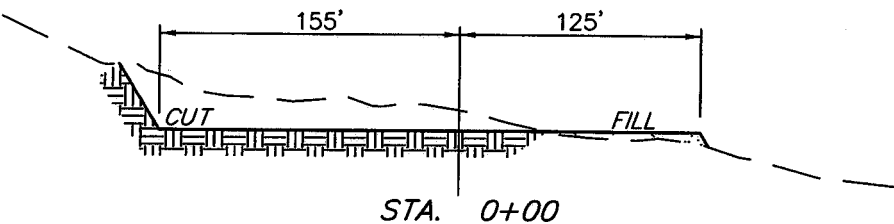
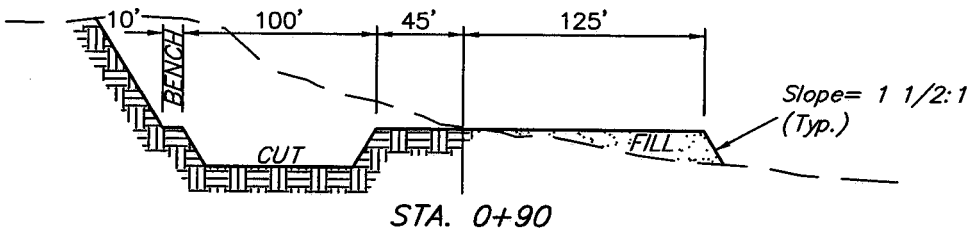
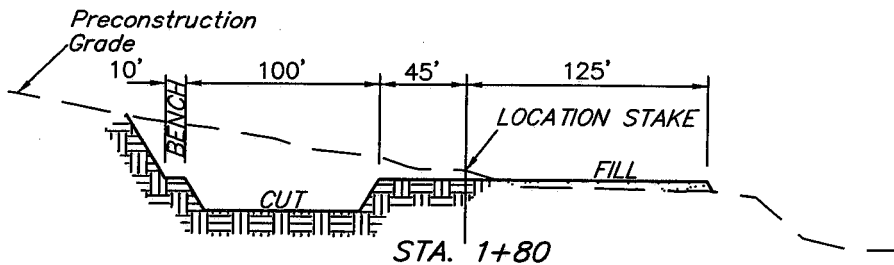
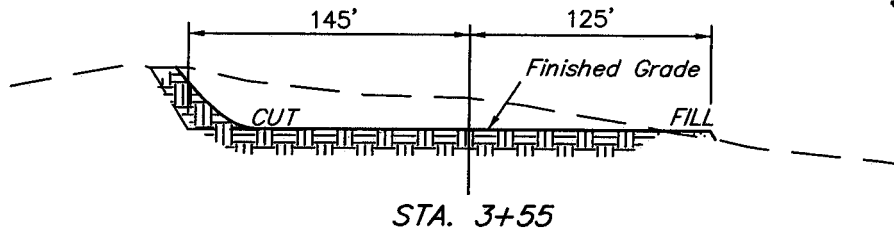
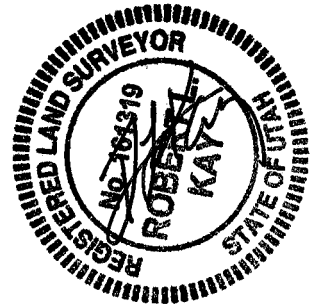
SECTION 16, T3S, R6W, U.S.B.&M.

1679' FNL 1390' FEL



DATE: 10-15-08

DRAWN BY: S.L.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE ACREAGES

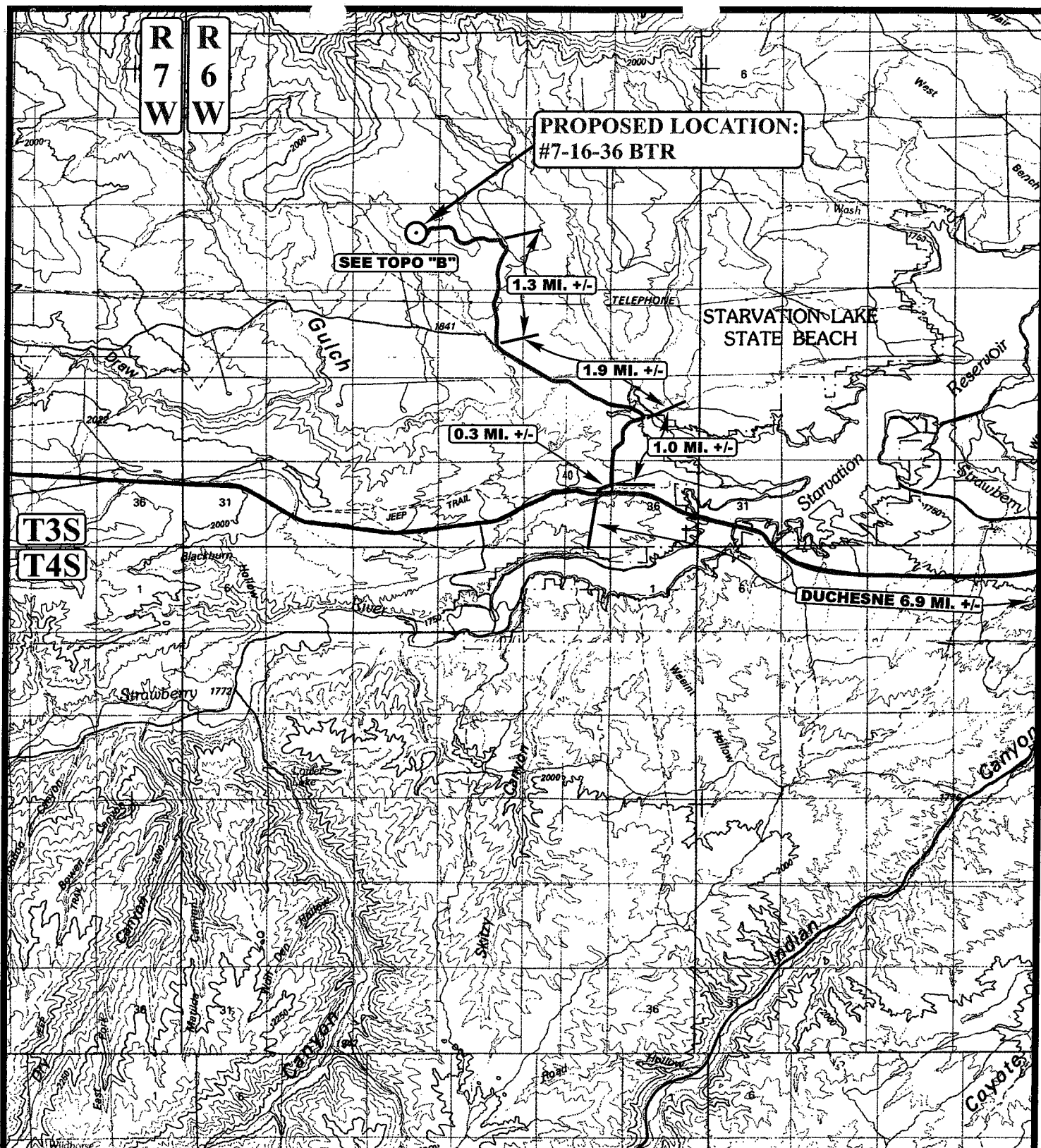
WELL SITE DISTURBANCE = ± 2.975 ACRES  
ACCESS ROAD DISTURBANCE = ± 3.840 ACRES  
PIPELINE DISTURBANCE = ± 4.026 ACRES  
TOTAL = ± 10.841 ACRES

### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 2,160 Cu. Yds.  
Remaining Location = 21,210 Cu. Yds.  
TOTAL CUT = 23,370 CU.YDS.  
FILL = 3,480 CU.YDS.

EXCESS MATERIAL = 19,890 Cu. Yds.  
Topsoil & Pit Backfill = 4,360 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 15,530 Cu. Yds.  
(After Rehabilitation)

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# **LEGEND:**

○ PROPOSED LOCATION

N

**BILL BARRETT CORPORATION**

#7-16-36 BTR

SECTION 16, T3S, R6W, U.S.B.&M.

1679' FNL 1390' FEL



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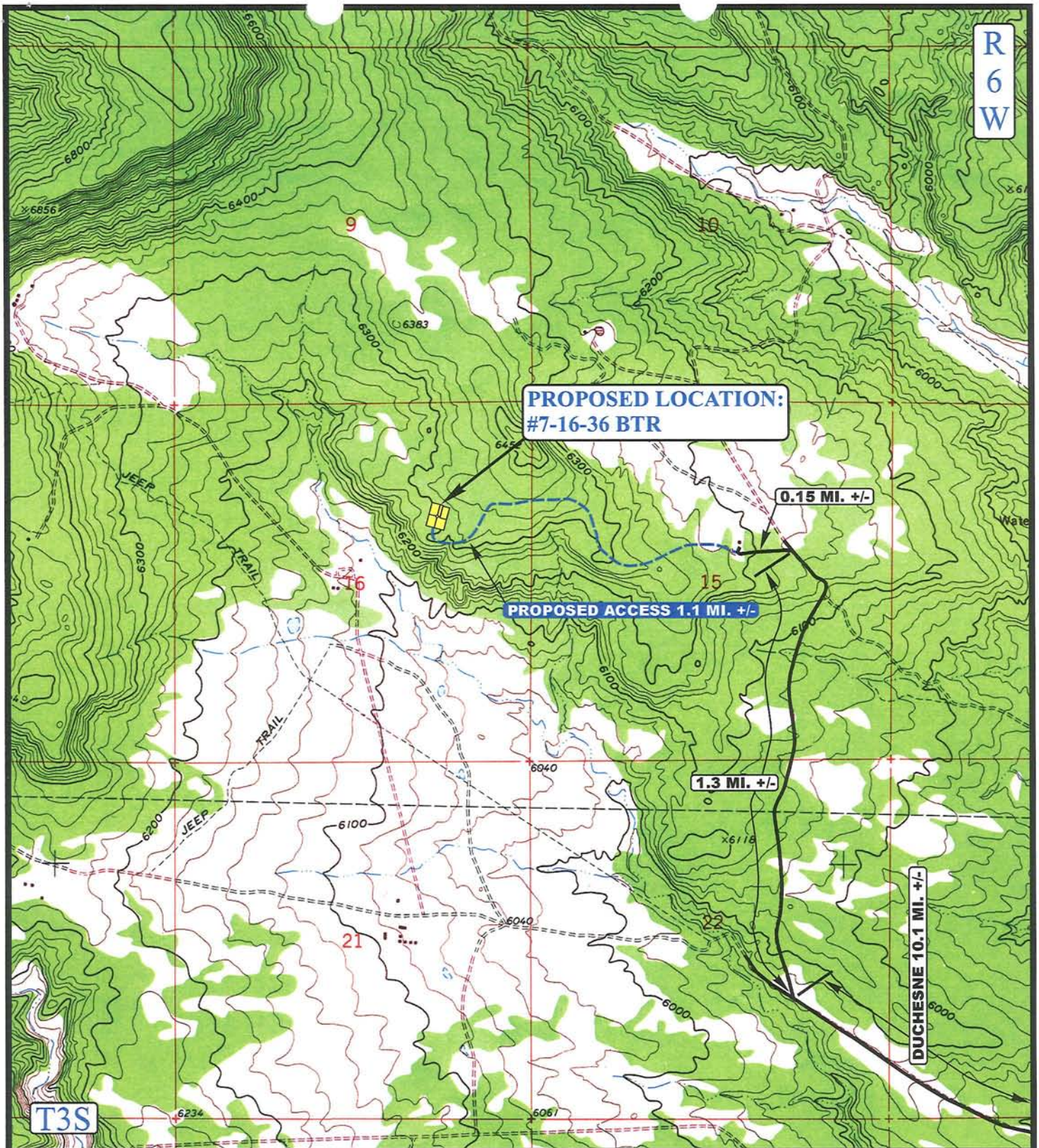
TOPOGRAPHIC  
MAP

10 10 08  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00

A  
TOPO





**LEGEND:**

— EXISTING ROAD  
- - - PROPOSED ACCESS ROAD



**BILL BARRETT CORPORATION**

#7-16-36 BTR  
SECTION 16, T3S, R6W, U.S.B.&M.  
1679' FNL 1390' FEL



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**TOPOGRAPHIC  
MAP**

**10 10 08**  
MONTH DAY YEAR

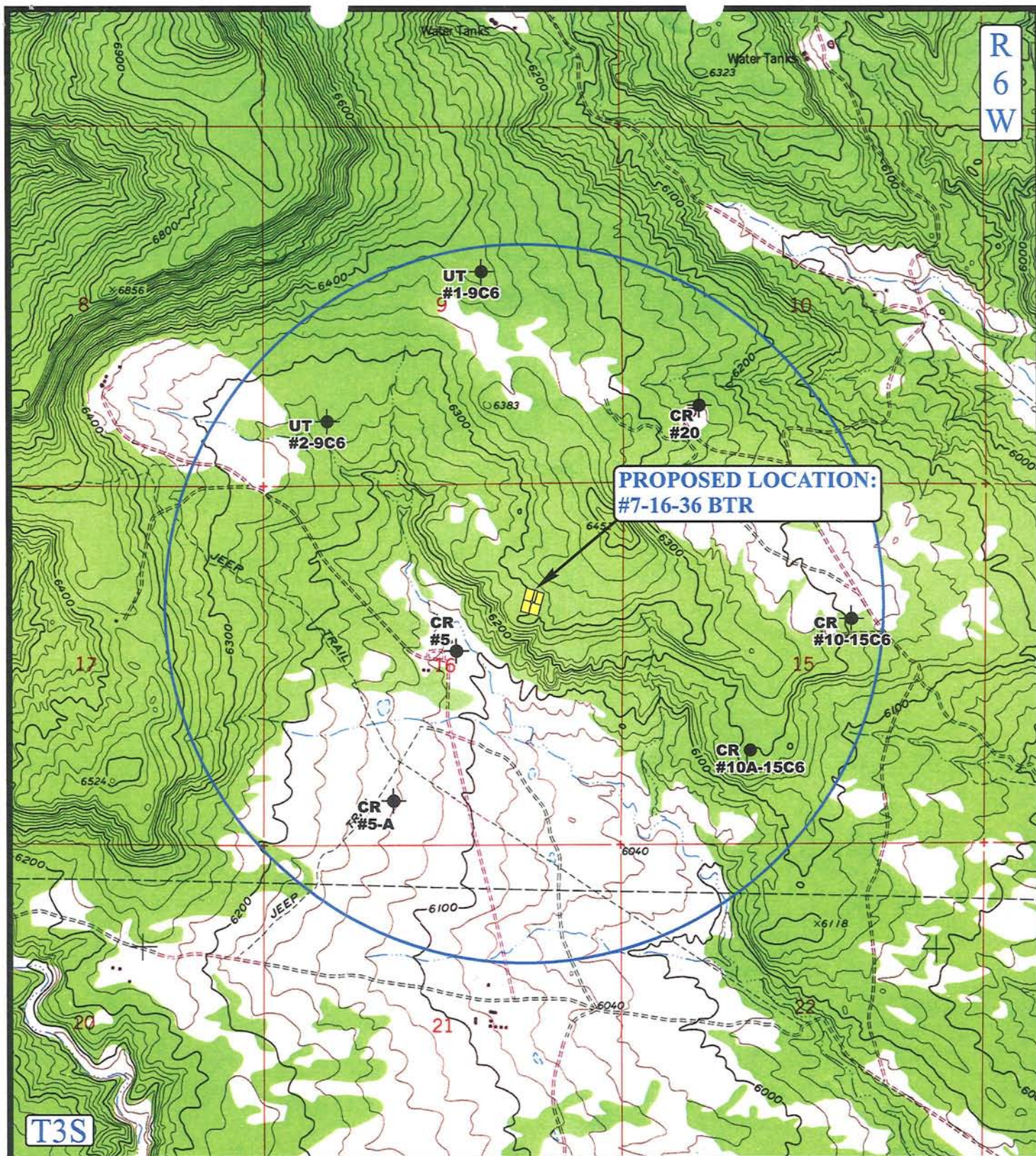
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DRAWN BY: Z.L.

REVISED: 00-00-00







# LEGEND:

- |                   |                         |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS  | ⊗ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



## BILL BARRETT CORPORATION

#7-16-36 BTR

SECTION 16, T3S, R6W, U.S.B.&M.

1679' FNL 1390' FEL



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**TOPOGRAPHIC**  
**MAP**

**10 10 08**  
 MONTH DAY YEAR

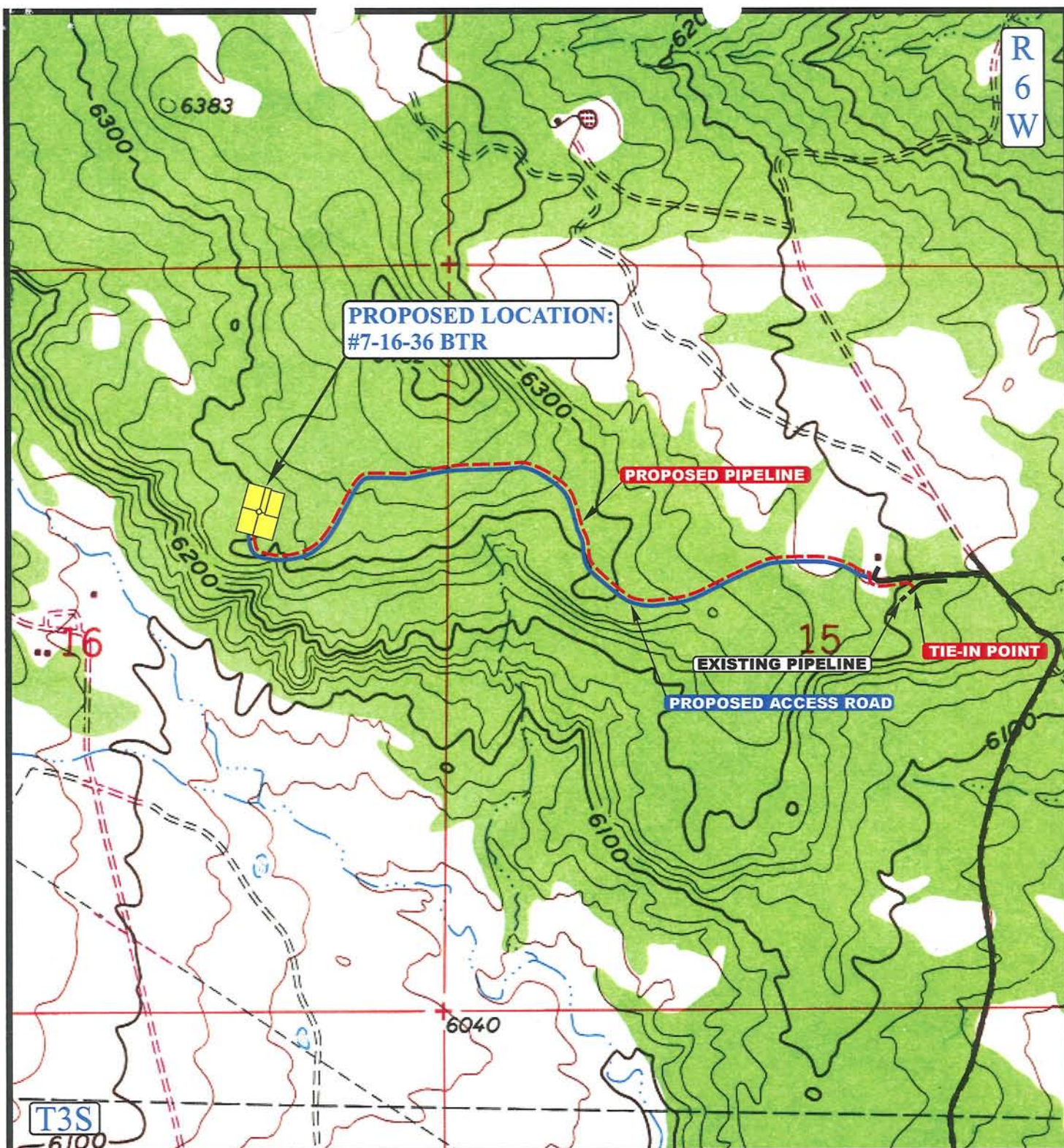
SCALE: 1" = 2000'

DRAWN BY: Z.L.

REVISED: 00-00-00







**APPROXIMATE TOTAL PIPELINE DISTANCE = 5,846' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS

**BILL BARRETT CORPORATION**

**#7-16-36 BTR**

**SECTION 16, T3S, R6W, U.S.B.&M.**

**1679' FNL 1390' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
MAP**

**10 10 08**  
MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: Z.L.

REVISED: 00-00-00



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/12/2008

API NO. ASSIGNED: 43-013-34133

WELL NAME: 7-16-36 BTR

OPERATOR: BILL BARRETT CORP ( N2165 )

PHONE NUMBER: 303-312-8546

CONTACT: REED HADDOCK

**PROPOSED LOCATION:**

SWNE 16 030S 060W

SURFACE: 1679 FNL 1390 FEL

BOTTOM: 1679 FNL 1390 FEL

COUNTY: DUCHESNE

LATITUDE: 40.22251 LONGITUDE: -110.5630

UTM SURF EASTINGS: 537179 NORTHINGS: 4452335

FIELD NAME: CEDAR RIM ( 80 )

| INSPECT LOCATN BY: / / |          |      |
|------------------------|----------|------|
| Tech Review            | Initials | Date |
| Engineering            |          |      |
| Geology                |          |      |
| Surface                |          |      |

LEASE TYPE: 2 - Indian

LEASE NUMBER: 20G00005608

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: WSTC

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. WYB000040 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
Fee Surf Agreement (Y/N)  
Intent to Commingle (Y/N)

**LOCATION AND SITING:**

R649-2-3.  
Unit: \_\_\_\_\_  
R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 13477  
Eff Date: 6-18-2007  
Siting: 1660' for u/drg & 1320' for other wells.  
R649-3-11. Directional Drill

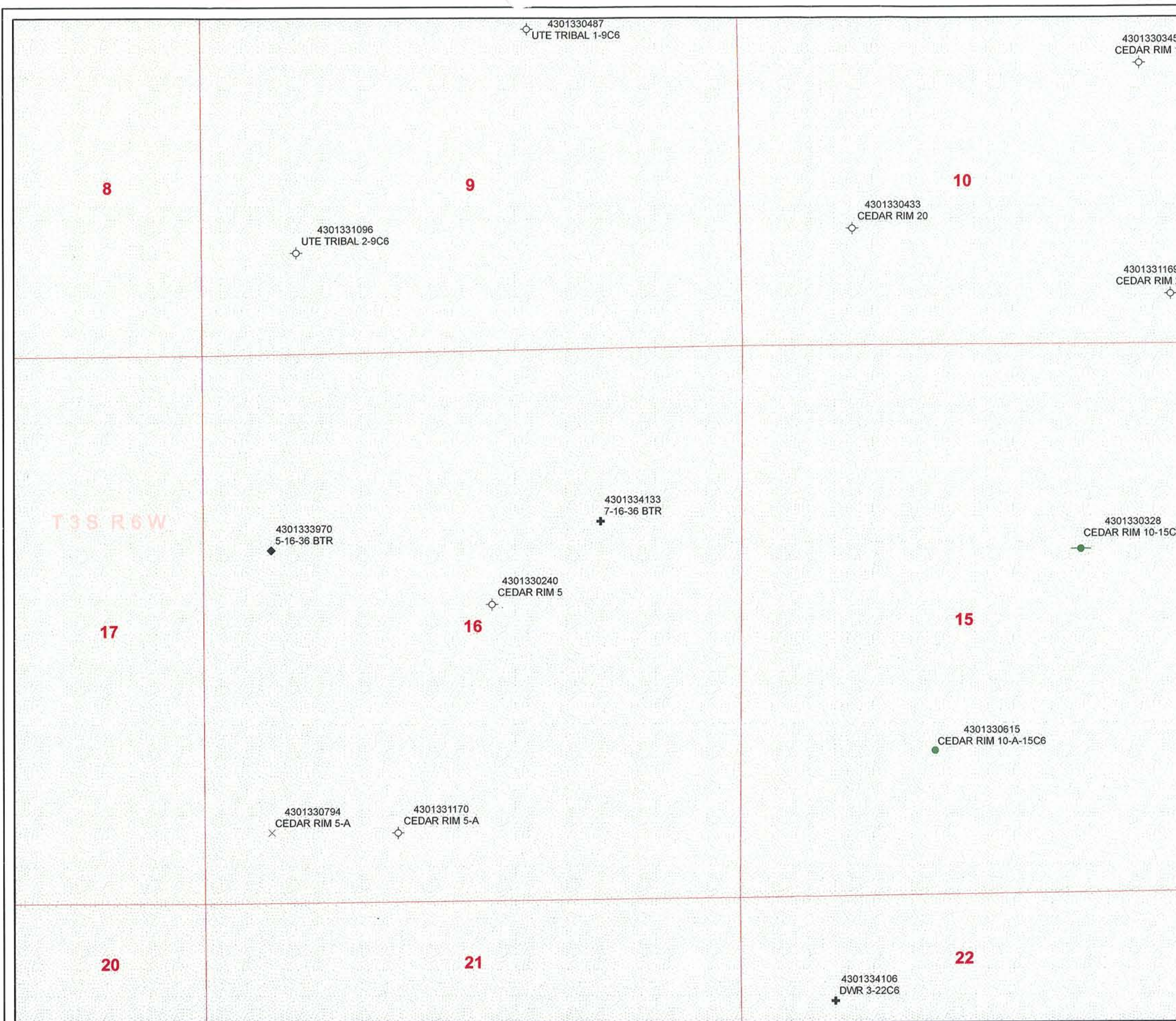
**COMMENTS:**

Needs Permit (11-26-08)

**STIPULATIONS:**

1- Federal Approval  
2- STATEMENT OF BASIS

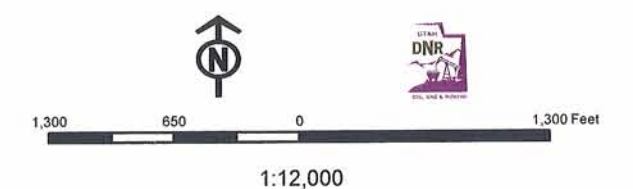
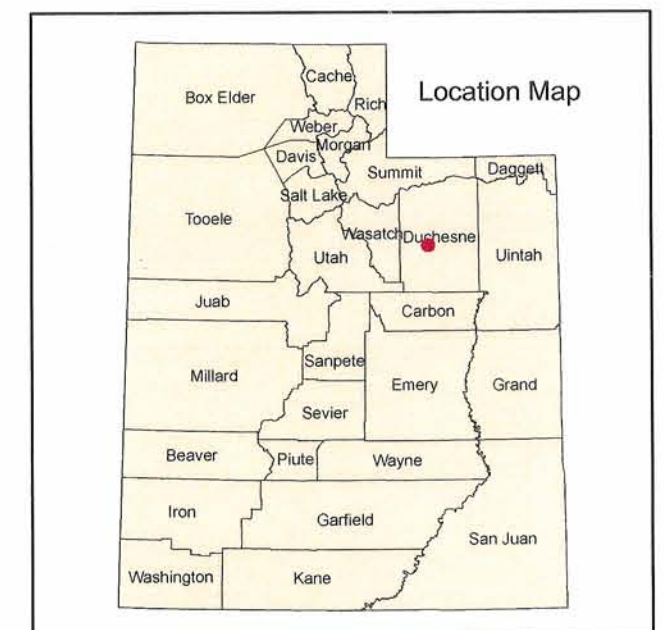




**API Number: 4301334133**  
**Well Name: 7-16-36 BTR**  
**Township 03.0 S Range 06.0 W Section 16**  
**Meridian: UBM**  
Operator: BILL BARRETT CORP

Map Prepared:  
Map Produced by Diana Mason

| Units         | Wells Query Events   |
|---------------|----------------------|
| <b>STATUS</b> | <all other values>   |
| ACTIVE        | <b>GIS_STAT_TYPE</b> |
| EXPLORATORY   | <Null>               |
| GAS STORAGE   | APD                  |
| NF PP OIL     | DRL                  |
| NF SECONDARY  | GI                   |
| PI OIL        | GS                   |
| PP GAS        | LA                   |
| PP GEOTHERML  | NEW                  |
| PP OIL        | OPS                  |
| SECONDARY     | PA                   |
| TERMINATED    | PGW                  |
| <b>Fields</b> | POW                  |
| ACTIVE        | RET                  |
| COMBINED      | SGW                  |
| Sections      | SOW                  |
| Township      | TA                   |
|               | TW                   |
|               | WD                   |
|               | WI                   |
|               | WS                   |





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# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

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12/23/2008

Page 1

|                  |                                   |                                  |                  |                  |            |
|------------------|-----------------------------------|----------------------------------|------------------|------------------|------------|
| <b>APD No</b>    | <b>API WellNo</b>                 | <b>Status</b>                    | <b>Well Type</b> | <b>Surf Ownr</b> | <b>CBM</b> |
| 1185             | 43-013-34133-00-00                |                                  | OW               | P                | No         |
| <b>Operator</b>  | BILL BARRETT CORP                 | <b>Surface Owner-APD</b>         |                  |                  |            |
| <b>Well Name</b> | 7-16-36 BTR                       | <b>Unit</b>                      |                  |                  |            |
| <b>Field</b>     | CEDAR RIM                         | <b>Type of Work</b>              |                  |                  |            |
| <b>Location</b>  | SWNE 16 3S 6W U 1679 FNL 1390 FEL | GPS Coord (UTM) 537179E 4452335N |                  |                  |            |

#### Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling casing and cement programs.

Brad Hill  
APD Evaluator

12/23/2008  
Date / Time

#### Surface Statement of Basis

This presite evaluation was conducted on 11/26/2008. Participants included Richard Powell (DOGM), Pat Rainbolt (DWR), David Gordon (BLM), and Bryon Getchell (Bill Barrett Corporation). Reserve pit liner requirements were discussed between Bryon Getchell and Richard Powell and it was determined that a 20 mil liner and felt subliner would be required due to the permeability of the soil, the exposed rock which may necessitate blasting. David Gordon had no concerns with this location. Pat Rainbolt stated that an agreement had been signed between the DWR and Bill Barrett Corp, which stipulate that no construction of drilling activities will take place from December 1 to April 15. Mr. Rainbolt also requested that production equipment and tanks are painted olive green to most closely blend in with the landscape. This appears to be a good location for placement of the well.

Richard Powell  
Onsite Evaluator

11/26/2008  
Date / Time

#### Conditions of Approval / Application for Permit to Drill

|                 |   |
|-----------------|---|
| <b>Category</b> | <b>Condition</b>  |
|                 | 20 mil liner plus felt sub liner  |
| Surface         | The reserve pit shall be fenced upon completion of drilling operations. |
| Surface         | The well site shall be bermed to prevent fluids from leaving the pad.   |

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** BILL BARRETT CORP  
**Well Name** 7-16-36 BTR  
**API Number** 43-013-34133-0 **APD No** 1185 **Field/Unit** CEDAR RIM  
**Location:** 1/4,1/4 SWNE **Sec** 16 **Tw** 3S **Rng** 6W 1679 FNL 1390 FEL  
**GPS Coord (UTM)** 537174 4452307 **Surface Owner**

### **Participants**

Richard Powell (DOGM), Pat Rainbolt (DWR), David Gordon (BLM), Bryon Getchell (Bill Barrett Corp.)

### **Regional/Local Setting & Topography**

This location is set near the western edge of a large bench. To the west of location the land drops off a steep ledge to a large draw below. This draw drains eastward toward Rabbit Gulch. To the north and east of the location the land climbs gradually. Rabbit Gulch dominates the topography of this area, which lies west of Starvation Reservoir and north of Hwy 40. The drainages of this area lead to Rabbit Gulch, which then drains to the Starvation Reservoir near Duchesne, UT.

### **Surface Use Plan**

#### **Current Surface Use**

Wildlfe Habitat

Deer Winter Range

#### **New Road**

| <b>Miles</b> | <b>Well Pad</b>  | <b>Src Const Material</b> | <b>Surface Formation</b> |
|--------------|------------------|---------------------------|--------------------------|
| 1.1          | <b>Width</b> 270 | <b>Length</b> 355         | Onsite                   |

**Ancillary Facilities** N

### **Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Flora: little or no grass, thick pinyon juniper, brigham tea, prickly pear

Fauna: Deer, elk, coyote, bobcat, black bear, cougar, raptors, rabbit

#### **Soil Type and Characteristics**

Sandy clay

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** Y

Location should be bermed due to close proximity of ledge

Erosion Sedimentation Control Required? N

Paleo Survey Run?

Paleo Potential Observed? N

Cultural Survey Run? Y

Cultural Resources?

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

|                                   |                  |    |
|-----------------------------------|------------------|----|
| Distance to Groundwater (feet)    | >200             | 0  |
| Distance to Surface Water (feet)  | >1000            | 0  |
| Dist. Nearest Municipal Well (ft) | >5280            | 0  |
| Distance to Other Wells (feet)    | >1320            | 0  |
| Native Soil Type                  | Mod permeability | 10 |
| Fluid Type                        | Fresh Water      | 5  |
| Drill Cuttings                    | Normal Rock      | 0  |
| Annual Precipitation (inches)     | 10 to 20         | 5  |
| Affected Populations              | <10              | 0  |
| Presence Nearby Utility Conduits  | Not Present      | 0  |

**Final Score** 20 1 **Sensitivity Level**

**Characteristics / Requirements**

Reserve pit is 100' by 200' by 8' deep. A 20 mil liner over a felt sub-liner will be used.

Closed Loop Mud Required? N

Liner Required? Y

Liner Thickness 20

Pit Underlayment Required? Y

**Other Observations / Comments**

20 mil liner and felt

Richard Powell  
Evaluator

11/26/2008  
Date / Time





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 3, 2010

Bill Barrett Corporation  
1099 18th Street, Suite 2300  
Denver, CO 80202

Subject: 7-16-36 BTR Well, 1679' FNL, 1390' FEL, SW NE, Sec. 16, T. 3 South, R. 6 West,  
Duchesne County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34133.

Sincerely,

Gil Hunt  
Associate Director

GLH/js  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office



**Operator:** Bill Barrett Corporation  
**Well Name & Number** 7-16-36 BTR  
**API Number:** 43-013-34133  
**Lease:** 2OG0005608

**Location:** SW NE    Sec. 16    T. 3 South    R. 6 West

### **Conditions of Approval**

#### **1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)

OR

Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office  
(801) 733-0983 after office hours

#### **3. Reporting Requirements**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

#### **4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

#### **5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

# RECEIVED

Form 3160-3  
(August 2007)

SEP 24 2008

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

|  |   |  |
|--|---|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>14-20-H62-6263  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone             |   | 6. If Indian, Allottee or Tribe Name<br>Ute Indian Tribe                     |
| 2. Name of Operator Bill Barrett Corporation   |   | 7. If Unit or CA Agreement, Name and No.<br>N/A                              |
| 3a. Address 1099 18th Street, Suite 2300, Denver, CO 80202   | 3b. Phone No. (include area code)<br>(303) 312-8134 | 8. Lease Name and Well No.<br># 7-16-36 BTR                                  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface 1679' FNL x 1390' FEL, Sec. 16, T3S, R6W SWNE<br>At proposed prod. zone 1679' FNL x 1390' FEL, Sec. 16, T3S, R6W SWNE |   | 9. API Well No.<br>4301334133  |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximately 12.65 miles northwest of Duchesne, UT   |   | 10. Field and Pool, or Exploratory<br>Altamont                               |
| 15. Distance from proposed* location to nearest property or lease line, ft.<br>(Also to nearest drig. unit line, if any) 1390' FEL   | 16. No. of acres in lease<br>N/A                    | 11. Sec., T. R. M. or Blk. and Survey or Area<br>Sec. 16, T3S, R6W U.S.B.&M. |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,300' abandon oil well   | 19. Proposed Depth<br>10,717'                       | 12. County or Parish<br>Duchesne   |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>6298' Ungraded Ground   | 22. Approximate date work will start*<br>08/14/2010 | 13. State<br>UT  |
| 23. Estimated duration<br>45 days  |   |  |

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

|  |  |                     |
|--|--|---------------------|
| 25. Signature<br><i>Tracey Fallang</i>                               | Name (Printed/Typed)<br>Tracey Fallang   | Date<br>07/16/2010  |
| Title<br>Regulatory Analyst  |  |                     |
| Approved by (Signature)<br><i>James H. Sparger</i>                   | Name (Printed/Typed)<br>James H. Sparger | Date<br>JUL 20 2010 |
| Title<br>Acting Assistant Field Manager<br>Lands & Mineral Resources | Office<br>VERNAL FIELD OFFICE            |                     |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

*Conditions of approval are attached*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

**UDOGM**

**NOTICE OF APPROVAL**

**RECEIVED**

JUL 19 2010

BLM VERNAL, UT

**RECEIVED**

JUL 28 2010

DIV. OF OIL, GAS & MINING

No Nos

09550085A

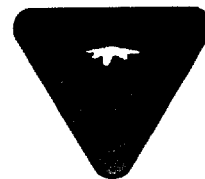


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 7-16-36 BTR  
API No: 43-013-34133

Location: SWNE, Sec. 16, T3S, R6W  
Lease No: 14-20-H62-6263  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**  
**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

|  |  |
|--|--|
| Construction Activity<br>(Notify Ute Tribe Energy & Minerals Dept.<br>and BLM Environmental Scientist)   | - The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.                                      |
| Construction Completion<br>(Notify Ute Tribe Energy & Minerals Dept.<br>and BLM Environmental Scientist) | - Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig. |
| Spud Notice<br>(Notify BLM Petroleum Engineer)   | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify BLM Supv. Petroleum Tech.)  | - Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .   |
| BOP & Related Equipment Tests<br>(Notify BLM Supv. Petroleum Tech.)                                      | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify BLM Petroleum Engineer)   | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.   |

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**CONDITIONS OF APPROVAL:**

- The operator will strictly adhere to all Stipulations and Conditions of Approval associated with the Utah Division of Wildlife Resources (UDWR) Site-Specific Environmental Assessment DUC-0910EA-055 and 054.
- Any deviation of submitted APD's and ROW applications the operator will notify the UDWR in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the UDWR shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease or as directed by the surface authority UDWR.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- All casing strings below the conductor shall be pressure tested to 0.22 psi/foot or 1500 psi, whichever is greater but not to exceed 70% of the internal yield.
- The production casing cement shall extend a minimum of 200 feet above the surface casing shoe.
- A Cement Bond Log (CBL) shall be run in the production casing from the TD to the top of cement. A field copy of the CBL shall be submitted to the BLM Vernal Field Office for review.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

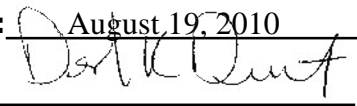
- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.



- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

|  |   |   |
|--|---|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.                         |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>20G00005608 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE           |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |   | <b>7. UNIT or CA AGREEMENT NAME:</b>                          |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |   | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>9. API NUMBER:</b><br>43013341330000                       |
| <b>5. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM             |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>COUNTY:</b><br>DUCHESNE                                    |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>STATE:</b><br>UTAH   |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |   |   |
| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>   |   |
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> <b>ACIDIZE</b>   |   |
| <input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br>4/27/2009  | <input type="checkbox"/> <b>ALTER CASING</b>  |   |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> <b>CASING REPAIR</b>   |   |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  | <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>  |   |
|  | <input type="checkbox"/> <b>CHANGE TUBING</b>   |   |
|  | <input type="checkbox"/> <b>CHANGE WELL STATUS</b>  |   |
|  | <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>                                    |   |
|  | <input type="checkbox"/> <b>DEEPEN</b>  |   |
|  | <input type="checkbox"/> <b>FRACTURE TREAT</b>  |   |
|  | <input type="checkbox"/> <b>OPERATOR CHANGE</b>   |   |
|  | <input type="checkbox"/> <b>PLUG AND ABANDON</b>  |   |
|  | <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>  |   |
|  | <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>  |   |
|  | <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>                                     |   |
|  | <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>  |   |
|  | <input type="checkbox"/> <b>TUBING REPAIR</b>   |   |
|  | <input type="checkbox"/> <b>VENT OR FLARE</b>   |   |
|  | <input type="checkbox"/> <b>WATER SHUTOFF</b>   |   |
|  | <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>  |   |
|  | <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>  |   |
|  | <input checked="" type="checkbox"/> <b>OTHER</b>  |   |
|  | <b>OTHER:</b> <span style="border: 1px solid black; padding: 2px;">Correction to lease num</span> |   |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>This Sundry is being submitted to indicate that the lease for this section has been earned. The correct lease number is 14-20-H62-6263. Please update your information with this lease. |   |   |
| <b>Accepted by the</b><br><b>Utah Division of</b><br><b>Oil, Gas and Mining</b><br><b>FOR RECORD ONLY</b><br>August 12, 2010   |   |   |
| <b>NAME (PLEASE PRINT)</b><br>Tracey Fallang   | <b>PHONE NUMBER</b><br>303 312-8134   | <b>TITLE</b><br>Regulatory Analyst                            |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>8/11/2010  |   |

|  |   |  |  |   |  |
|--|---|--|--|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |  |   |  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.   |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263   |  |   |  |
| <b>1. TYPE OF WELL</b><br>Oil Well   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE  |  |   |  |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |   | <b>7. UNIT or CA AGREEMENT NAME:</b>   |  |   |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |   | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR   |  |   |  |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>9. API NUMBER:</b><br>43013341330000  |  |   |  |
| <b>PHONE NUMBER:</b><br>303 312-8164 Ext   |   | <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  |   |  |
| <b>COUNTY:</b><br>DUCHESNE   |   | <b>STATE:</b><br>UTAH  |  |   |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |   |  |  |   |  |
| <b>TYPE OF SUBMISSION</b><br><br><input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>8/17/2010<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   | <b>TYPE OF ACTION</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE<br/> <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input type="checkbox"/> APD EXTENSION<br/>           OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> </td> </tr> </table> |  | <input type="checkbox"/> ACIDIZE<br><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> |
| <input type="checkbox"/> ACIDIZE<br><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER   | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> |  |   |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>This sundry is being submitted as notification that the proposed cement program for this well has changed. A revised proposal is attached.  |   |  |  |   |  |
| <b>Accepted by the Utah Division of Oil, Gas and Mining</b><br><br><b>Date:</b> August 19, 2010<br><b>By:</b>   |   |  |  |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Tracey Fallang   |   | <b>PHONE NUMBER</b><br>303 312-8134  |  |   |  |
| <b>SIGNATURE</b><br>N/A  |   | <b>TITLE</b><br>Regulatory Analyst   |  |   |  |
| <b>DATE</b><br>8/12/2010   |   |  |  |   |  |



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: 7-16-36 BTR

### Surface Hole Data:

|                |         |
|----------------|---------|
| Total Depth:   | 3,000'  |
| Top of Cement: | 0'      |
| OD of Hole:    | 12.250" |
| OD of Casing:  | 9.625"  |

### Calculated Data:

|              |        |                 |
|--------------|--------|-----------------|
| Lead Volume: | 1370.2 | ft <sup>3</sup> |
| Lead Fill:   | 2,500' |                 |
| Tail Volume: | 274.0  | ft <sup>3</sup> |
| Tail Fill:   | 500'   |                 |

### Cement Data:

|              |      |                     |
|--------------|------|---------------------|
| Lead Yield:  | 3.16 | ft <sup>3</sup> /sk |
| % Excess:    | 75%  |                     |
| Top of Lead: | 0'   |                     |

### Calculated # of Sacks:

|              |     |
|--------------|-----|
| # SK's Lead: | 450 |
|--------------|-----|

|              |        |                     |
|--------------|--------|---------------------|
| Tail Yield:  | 1.36   | ft <sup>3</sup> /sk |
| % Excess:    | 75%    |                     |
| Top of Tail: | 2,500' |                     |

|              |     |
|--------------|-----|
| # SK's Tail: | 210 |
|--------------|-----|

### Production Hole Data:

|                |         |
|----------------|---------|
| Total Depth:   | 10,717' |
| Top of Cement: | 0'      |
| Top of Tail:   | 8,717'  |
| OD of Hole:    | 8.750"  |
| OD of Casing:  | 5.500"  |

### Calculated Data:

|              |        |                 |
|--------------|--------|-----------------|
| Lead Volume: | 3302.8 | ft <sup>3</sup> |
| Lead Fill:   | 8,717' |                 |
| Tail Volume: | 757.9  | ft <sup>3</sup> |
| Tail Fill:   | 2,000' |                 |

### Cement Data:

|             |      |                     |
|-------------|------|---------------------|
| Lead Yield: | 2.31 | ft <sup>3</sup> /sk |
| Tail Yield: | 1.42 | ft <sup>3</sup> /sk |
| % Excess:   | 50%  |                     |

### Calculated # of Sacks:

|              |      |
|--------------|------|
| # SK's Lead: | 1430 |
| # SK's Tail: | 540  |

## 7-16-36 BTR Proposed Cementing Program

| <u>Job Recommendation</u>         | <u>Surface Casing</u>  |            |                     |
|-----------------------------------|------------------------|------------|---------------------|
| <b>Lead Cement - (2500' - 0')</b> |                        |            |                     |
| Halliburton Light Premium         | Fluid Weight:          | 11.0       | lbm/gal             |
| 5.0 lbm/sk Silicalite Compacted   | Slurry Yield:          | 3.16       | ft <sup>3</sup> /sk |
| 0.25 lbm/sk Kwik Seal             | Total Mixing Fluid:    | 19.48      | Gal/sk              |
| 0.125 lbm/sk Poly-E-Flake         | Top of Fluid:          | 0'         |                     |
| 2.0% Bentonite                    | Calculated Fill:       | 2,500'     |                     |
|                                   | Volume:                | 244.02     | bbl                 |
|                                   | <b>Proposed Sacks:</b> | <b>450</b> | <b>sks</b>          |
| <b>Tail Cement - (TD - 2500')</b> |                        |            |                     |
| Premium Cement                    | Fluid Weight:          | 14.8       | lbm/gal             |
| 2.0% Calcium Chloride             | Slurry Yield:          | 1.36       | ft <sup>3</sup> /sk |
|                                   | Total Mixing Fluid:    | 6.37       | Gal/sk              |
|                                   | Top of Fluid:          | 2,500'     |                     |
|                                   | Calculated Fill:       | 500'       |                     |
|                                   | Volume:                | 48.80      | bbl                 |
|                                   | <b>Proposed Sacks:</b> | <b>210</b> | <b>sks</b>          |

| <u>Job Recommendation</u>             | <u>Production Casing</u> |             |            |
|---------------------------------------|--------------------------|-------------|------------|
| <b>Lead Cement - (8717' - 0')</b>     |                          |             |            |
| Tuned Light™ System                   | Fluid Weight:            | 11.0        | lbm/gal    |
|                                       | Slurry Yield:            | 2.31        | ft³/sk     |
|                                       | Total Mixing Fluid:      | 10.65       | Gal/sk     |
|                                       | Top of Fluid:            | 0'          |            |
|                                       | Calculated Fill:         | 8,717'      |            |
|                                       | Volume:                  | 588.21      | bbl        |
|                                       | <b>Proposed Sacks:</b>   | <b>1430</b> | <b>sks</b> |
| <b>Tail Cement - (10717' - 8717')</b> |                          |             |            |
| Econocem™ System                      | Fluid Weight:            | 13.5        | lbm/gal    |
| 0.125 lbm/sk Poly-E-Flake             | Slurry Yield:            | 1.42        | ft³/sk     |
| 1.0 lbm/sk Granulite TR 1/4           | Total Mixing Fluid:      | 6.61        | Gal/sk     |
|                                       | Top of Fluid:            | 8,717'      |            |
|                                       | Calculated Fill:         | 2,000'      |            |
|                                       | Volume:                  | 134.97      | bbl        |
|                                       | <b>Proposed Sacks:</b>   | <b>540</b>  | <b>sks</b> |



## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: BILL BARRETT CORPORATION

Well Name: 7-16-36 BTR

Api No: 43-013-34133 Lease Type FEDERAL – FEE SURF

Section 16 Township 03S Range 06W County DUCHESNE

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # 3

### **SPUDDDED:**

Date 08/24/2010

Time 9:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by BRADY RILEY

Telephone # (303) 362-8115

Date 10/20/2010 Signed CHD



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8115

**Well 1**

| API Number  | Well Name             |                   | QQ        | Sec | Twp | Rng                              | County   |
|---|-----------------------|-------------------|-----------|-----|-----|----------------------------------|----------|
| 4301334133  | 7-16-36 BTR           |                   | SWNE      | 16  | 3S  | 6W                               | Duchesne |
| Action Code   | Current Entity Number | New Entity Number | Spud Date |     |     | Entity Assignment Effective Date |          |
| A   | 99999                 | 17834             | 8/24/2010 |     |     | 10/28/10                         |          |
| <b>Comments:</b> Spudding Operation was conducted by Craig's Roustabout #3 @ 9:00 am.<br><u>GR-WS</u> |                       |                   |           |     |     |                                  |          |

**Well 2**

| API Number       | Well Name             |                   | QQ        | Sec | Twp | Rng                              | County |
|------------------|-----------------------|-------------------|-----------|-----|-----|----------------------------------|--------|
|                  |                       |                   |           |     |     |                                  |        |
| Action Code      | Current Entity Number | New Entity Number | Spud Date |     |     | Entity Assignment Effective Date |        |
|                  |                       |                   |           |     |     |                                  |        |
| <b>Comments:</b> |                       |                   |           |     |     |                                  |        |

**Well 3**

| API Number       | Well Name             |                   | QQ        | Sec | Twp | Rng                              | County |
|------------------|-----------------------|-------------------|-----------|-----|-----|----------------------------------|--------|
|                  |                       |                   |           |     |     |                                  |        |
| Action Code      | Current Entity Number | New Entity Number | Spud Date |     |     | Entity Assignment Effective Date |        |
|                  |                       |                   |           |     |     |                                  |        |
| <b>Comments:</b> |                       |                   |           |     |     |                                  |        |

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Brady Riley

Name (Please Print)

**Brady Riley**

Signature

Permit Analyst

Title

10/20/2010

Date

**RECEIVED**

**OCT 20 2010**

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |   |
|--|---|---|---|
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input style="width: 100px;" type="text"/> |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:          |   |   |   |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:                           |   |   |   |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>3/1/2011 |   |   |   |

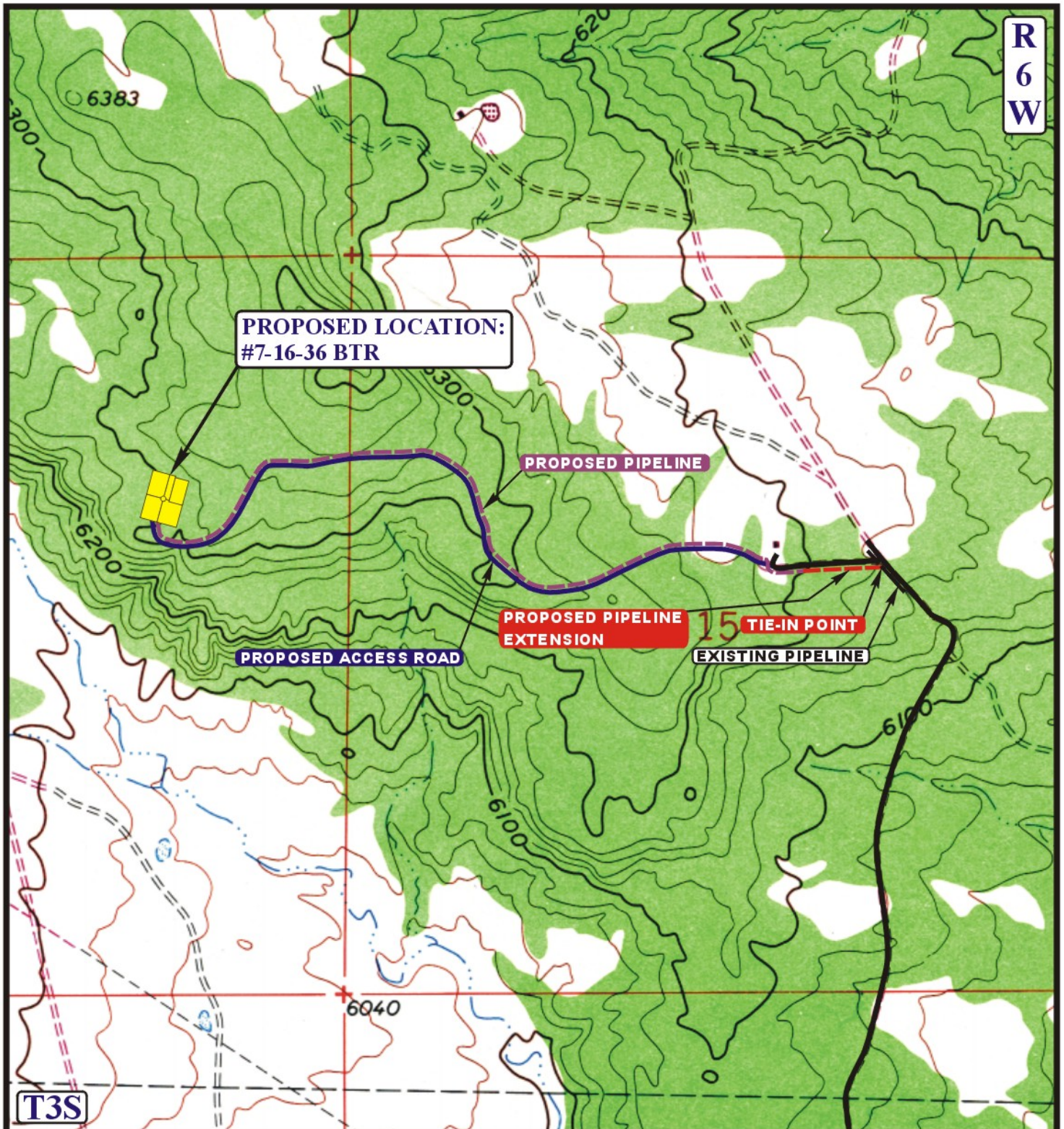
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  
 Monthly Activity Report for March 2011. No activity to report.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

|   |                                     |                                |
|---|-------------------------------------|--------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley | <b>PHONE NUMBER</b><br>303 312-8115 | <b>TITLE</b><br>Permit Analyst |
| <b>SIGNATURE</b><br>N/A                   | <b>DATE</b><br>4/5/2011             |                                |

|   |  |  |
|---|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP  |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202   |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U   |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM   |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH   |  |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>  |  |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |  |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:  | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION<br><input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER |  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>5/4/2011   | OTHER: <span style="border: 1px solid black; padding: 2px;">Pipeline Extension</span>  |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:   |  |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:  |  |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>This is being submitted as informational purposes that BBC is extending this proposed pipeline beyond what was initially approved within the approved permit to drill. This extension, approximately 623 feet in distance, occurs on UDWR surface and an easement was executed with UDWR on April 12, 2011 to allow this proposed buried pipeline extension. A Class III archaeology inventory was completed as well as appropriate threatened and endangered species delineations (documents attached). |  |  |
| <b>Accepted by the Utah Division of Oil, Gas and Mining</b><br><b>FOR RECORD ONLY</b>   |  |  |
| <b>NAME (PLEASE PRINT)</b><br>Tracey Fallang  | <b>PHONE NUMBER</b><br>303 312-8134  | <b>TITLE</b><br>Regulatory Manager                               |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>5/4/2011  |  |





**APPROXIMATE TOTAL PIPELINE EXTENSION DISTANCE = 623' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE EXTENSION



**BILL BARRETT CORPORATION**

**#7-16-36 BTR**

**SECTION 16, T3S, R6W, U.S.B.&M.**

**1679' FNL 1390' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**10 10 08**  
 MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: Z.L.

REVISED: 10-20-10

**D  
TOPO**

**RECEIVED**

May. 04, 2011



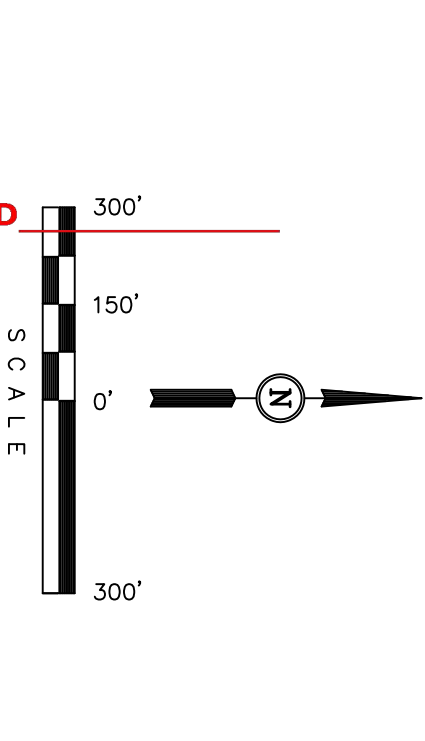
PIPELINE RIGHT-OF-WAY  
EXTENSION ON STATE OF  
UTAH (DWR) LANDS

(For #7-16-36 BTR)

LOCATED IN

SECTION 15, T3S, R6W, U.S.B.&amp;M.

DUCHESNE COUNTY, UTAH



# BASIS OF BEARINGS

BASIS OF **THE** BEARINGS IS A G.P.S. OBSERVATION.

 SECTION CORNERS LOCATED.

| RIGHT-OF-WAY LENGTHS |        |       |       |
|----------------------|--------|-------|-------|
| PROPERTY OWNER       | FEET   | ACRES | RODS  |
| (DWR) State Lands    | 623.54 | 0.429 | 37.79 |

# CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REVISID: 10-20-10 C.C.  
REVISID: 09-22-10 C.C.  
REGISTRATION NO. 161319  
STATE OF UTAH OF UTAH

RECEIVED: 09-23-10 C.C.  
REVISOR: 10-20-10 C.C.  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UNTAH ENGINEERING & LAND SURVEYING**

**85 SOUTH - 200 EAST • (435) 789-1017**

**VERNAL, UTAH - 84078**

| SCALE          |               | DATE     |
|----------------|---------------|----------|
| 1" = 300'      |               | 10-15-08 |
| PARTY          | REFERENCES    |          |
| D.R. A.H. S.L. | G.L.O. PLAT   |          |
| WEATHER        | FILE          |          |
| COLD           | 4 9 0 7 1 - A |          |

LS 4/19 0.8 High, File of Stones, Steel Post,

1994 Ukrainian Country  
Alum. Cap 0.6" High,  
Set Stone, Steel Post,  
E-W Fence

PIPELINE RIGHT-OF-WAY DESCRIPTION

---

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 15, TOWNSHIP 13S, RANGE 03E, COUNTY OF DEARBORN, MICHIGAN, BEARING S 89° 41' 40" E, DISTANCE 20.4400', END OF

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 15, T35S, R6W, U.S.B.&M. WHICH BEARS S18°14'48"E 2244.68' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE S88°13'22"E 128.25; THENCE N87°01'27"E 115.80; THENCE N86°47'11"E 84.36; THENCE N80°01'11"E 107.32; THENCE N85°42'56"E 108.54; THENCE N86°18'33"E 79.27 TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 15 WHICH BEARS S33°20'29"E 2474.91' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.429 ACRES MORE OR LESS.

| LINE TABLE |             |         |
|------------|-------------|---------|
| LINE       | BEARING     | LENGTH  |
| L69        | S89°31.22"E | 128.25' |
| L70        | N87°01'27"E | 115.80' |
| L71        | N86°44'11"E | 84.36'  |
| L72        | N80°01'11"E | 107.32' |
| L73        | N85°42'56"E | 108.54' |
| L74        | N86°18'33"E | 79.27'  |

State of  
Utah (DWR)

END OF PROPOSED PIPELINE  
RIGHT-OF-WAY EXTENSION  
STA. 64+16.22

P.I.  
BEGINNING OF PROPOSED PIPELINE  
RIGHT-OF-WAY EXTENSION  
STA. 57+92.68  
(At Point on Previously Described R-O-W)

P.L. 59+20.93  
Existing Road  
L70  
Sundry Number: 4794 Well Number: 43013341330000

Sec. 15

SW 1/4

SE 1/4

SE Cor. Sec. 15  
1991 Alum. Cap  
0.4' High, Set  
Stones, Steel  
Post

May. 04, 2011

CULTURAL RESOURCE INVENTORY OF  
BILL BARRETT CORPORATION'S PROPOSED  
#7-16-36 BTR PIPELINE AND #13-16-36 BTR WELL LOCATION  
(TOWNSHIP 3S, RANGE 6W, SECTION 16)  
IN DUCHESNE COUNTY, UTAH

**BILL BARRETT CORPORAITON  
BLACKTAIL RIDGE DRILLING PROJECT**

**THREATENED, ENDANGERED, AND SENSITIVE SPECIES  
HABITAT DELINEATION**

5-7D-46 BTR, 14-5-45 BTR, 16-6-45 BTR, 5-18D-45 BTR, 2-16D-45 BTR, 5-16D-45 BTR  
AND 5-27D-36 BTR PADS, PIPELINES, AND ACCESS ROADS  
5-8-45 BTR PIPELINE AND ACCESS ROAD  
13-2-46 BTR PIPELINE  
7-16-36 BTR PIPELINE EXTENSION  
7-6-45 BTR PIPELINE AND POWER LINE  
16-7-45 BTR POWER LINE

CONDUCTED OCTOBER 22 TO NOVEMBER 8, 2010

BY  
**EIS Environmental and Engineering Consulting**  
31 North Main Street \* Helper, Utah 84526  
Office - (435) 472-3814 \* Toll free - (800) 641-2927 \* Fax - (435) 472-8780  
eisec@preciscom.net

Bill Barrett Corporation Blacktail Ridge Drilling Project  
Threatened, Endangered, and Sensitive Species Habitat Delineation

## INTRODUCTION

Bill Barrett Corporation (BBC) has contracted Environmental Industrial Services (EIS) to complete a Threatened, Endangered, and Sensitive (TES) Species Habitat Delineation over twelve survey areas including well pads, pipeline routes, access roads, and power line routes within their Blacktail Ridge drilling area. The survey areas are in Duchesne County, approximately three to eleven miles West of Duchesne, Utah. Several TES species have been identified in Duchesne County and potentially could be found within the drilling area. This delineation has been completed to determine if there are suitable habitats within the proposed areas for well pads, pipelines, power lines, and access roads. The surface owners of the survey areas are the Utah Division of Wildlife Resources and the Ute Tribe.

The survey areas are located in Sections 15 and 27, T3S, R6W; Sections 5-9, and 16-18, T4S, R5W; and Sections 10, 11, 13, and 15, T4S, R6W. The attached topographic maps show each survey area.

The surveys were conducted on October 22 to November 8, 2010.

## METHODS

EIS Biologists with several field technicians walked transects through the survey areas in search of potential TES species and suitable habitat in the survey area. Habitat, vegetation, soil characteristics and topography were noted during the surveys. Each well pad, road, power line and pipeline were surveyed with a 300-foot buffer on either side of the centerline. Had a TES species been located, a photograph of the specimen and habitat would have been taken. A GPS coordinate would have been recorded and a flag planted adjacent to the specimen as well.

## GENERAL HABITAT DESCRIPTION

Survey areas range in elevation between 5,770 and 6,580 feet and are found on alluvium and colluvium or Duchesne River, Uinta, Bridger, Crazy Hollow, and other formations. Dominant vegetation is pinyon-juniper shrubland and woodland or sagebrush shrubland. A site-specific description is included in the attached Habitat Description table. Soils varied from clay loam to sand loam with shale rock fragments covering the surface in some survey areas.

## TES SPECIES

Table 1 includes federally listed species as well as Bureau of Land Management sensitive species.

TES Species Habitat Delineation October 22-November 8, 2010  
Blacktail Ridge



Table 1: TES Species In Duchesne County, Utah

| Scientific Name                          | Common Name                  | Status |
|--|------------------------------|--------|
| <i>Erigeron untermannii</i>              | Unterman Daisy               | S      |
| <i>Lepidium barnebyanum</i>              | Barneby Rigde Cress          | E      |
| <i>Mentzelia goodrichii</i>              | Goodrich Blazing Star        | S      |
| <i>Penstemon goodrichii</i>              | Goodrich Penstemon           | S      |
| <i>Penstemon grahamii</i>                | Graham Penstemon             | S      |
| <i>Schoenocrambe suffrutescens</i>       | Shrubby Reed Mustard         | E      |
| <i>Sclerocactus brevispinus</i>          | Pariette Cactus              | T      |
| <i>Sclerocactus wetlandicus</i>          | Uintah Basin Hookless Cactus | T      |
| <i>Spiranthes diluvialis</i>             | Ute Lady's Tresses           | T      |
| <i>Thelesperma pubescens caespitosum</i> | Duchesne Greenthread         | S      |

Status: T – Threatened, E – Endangered, S – Sensitive

***Erigeron untermannii***, Untermann daisy, habitat is in pinyon-juniper, mountain mahogany, bristlecone pine, and sagebrush communities on calcareous shales and sandstones of the Uinta and Green River Formations between 7,000 and 9,400 feet and blooms from May to June.

***Lepidium barnebyanum***, Barneby ridge cress, is found in areas of white shale outcrops on the Uinta Formation in pinyon-juniper habitat (mainly on ridge crests) between 6,200 and 6,500 feet elevation, flowering from May to June.

***Mentzelia goodrichii***, Goodrich blazing star, habitat is steep, white, marly calciferous shale of the Green River Formation in pinyon pine, Douglas fir, mountain mahogany, and rabbitbrush communities between 8,100 and 8,800 feet. The flower blooms from July to August.

***Penstemon goodrichii***, Goodrich penstemon, habitat is blue gray to reddish clay badlands of the Duchesne River Formation in shadscale and juniper-mountain mahogany communities from 5,600 to 6,200 feet in elevation. It blooms from late May to June.

***Penstemon grahamii***, Graham penstemon, habitat is sparsely vegetated shadscale, eriogonum, horsebrush, ryegrass, and pinyon-juniper communities on shale ledges and talus of the Green River Formation between 4,600 and 6,700 feet. It blooms from late May to mid-June.

***Schoenocrambe suffrutescens***, shrubby reed mustard, habitat is shadscale, pygmy sagebrush, mountain mahogany, juniper, and other desert shrub communities in calcareous shale of the Green River Formation between 5,400 and 6,000 feet elevation. The blooming period is from late May to mid-August.

***Sclerocactus brevispinus***, Pariette cactus, habitat is in the Pariette Draw in Northeastern Uintah County on saline and alkaline soils in clay badlands.

***Sclerocactus wetlandicus***, Uinta Basin hookless cactus, habitat is salt desert shrub and pinyon-juniper communities on river benches, valley slopes, and rolling hills of the Duchesne River,

TES Species Habitat Delineation October 22-November 8, 2010

Blacktail Ridge

2

Green River, and Mancos Formations in dry, fine-textured soils overlain with cobbles and pebbles from 4,500 to 6,600 feet elevation. Blooming period is from April to late May.

*Sprianthes diluvialis*, Ute lady's tresses, habitat is wet meadows, stream banks, oxbow meanders, marshes and raised bogs between 4,500 and 6,800 feet elevation. Blooming is between late July and September.

*Thelesperma pubescens caespitosum*, Duchesne greenthread, habitat is white shale slopes and ridges of the Green River Formation at approximately 5,900 feet. It blooms from May to June.

## RESULTS

*Erigeron untermannii*. None of the survey areas are within the elevation range described for the species, and the survey areas are not on the Green River Formation. Suitable habitat for this species is not within the survey areas. No specimens or remnants were found during the surveys.

*Lepidium barnebyanum*. Locations 2-16D-46, 13-2-46 pipeline, 5-18D-45, 16-7-45 power line, 5-8-45 pipeline and power line, 7-16-36 pipeline extension, and 5-16D-45 are within the elevation range described for the species. The remaining areas are not within the elevation range. White calcareous shale is present within the 2-16D-45 BTR and 5-16D-45 BTR pad locations and access roads. Photographs of these areas are attached. Suitable habitat for this species is found within the 2-16D-45 BTR pad area and access road near the pad. No specimens or remnants were positively identified during the survey. All other survey areas do not contain the calcareous shale similar to where the species is found and do not contain suitable habitat.

*Mentzelia goodrichii*. The survey areas are lower in elevation than described for the species and are not on the Green River Formation. Suitable habitat for this species does not exist within the survey area. No specimens were found during the surveys.

*Penstemon goodrichii*. The 5-18D-45 BTR location is not within the elevation range described for the species, and all other survey areas are within the elevation. Blue gray and reddish clay badlands are not within any of the surveyed areas. Suitable habitat for this species is not within the survey areas and no specimens or remnants were found during the surveys.

*Penstemon grahamii*. The survey areas are within the elevation described for the species but are not on the Green River Formation and suitable habitat for the species does not exist in the survey areas. No specimens were found during the surveys.

*Schoenocrambe suffrutescens*. The 2-16D-45 BTR and 5-16D-45 BTR locations contain calcareous shale but are not on the Green River Formation where the species is found. The remaining survey areas are not on the Green River Formation. Suitable habitat for this species does not exist in the survey areas. No specimens were found during the surveys.

*Sclerocactus brevispinus*. Clay badlands are not present in the survey areas. The survey areas do not contain soil similar the soil described for this species and do not contain potential habitat for the cactus. The survey areas are outside of the US Fish and Wildlife Service's potential

TES Species Habitat Delineation October 22-November 8, 2010

Blacktail Ridge

habitat polygon. Suitable habitat for this species is not found within the survey areas. No specimens were found during the surveys.

***Sclerocactus wetlandicus***. The survey areas are outside of the US Fish and Wildlife Service's potential habitat polygon. The survey areas do not contain soil similar to the soil described for this species and do not contain potential habitat for the cactus. Suitable habitat does not exist within the survey areas. No specimens were found during the surveys.

***Sprianthes diluvialis***. There are no wet meadows, stream banks, oxbow meanders, marshes or raised bogs within the survey areas. Suitable habitat does not exist within the survey areas. No specimens were found during the surveys.

***Thelesperma pubescens caespitosum***. The 7-6-45 BTR pipeline and power line, 16-6-45 BTR, 14-5-45 BTR, and 5-7D-46 BTR locations are near the elevation described for the species. The remaining survey areas are at different elevations than where the species is found. None of the survey areas are on the Green River Formation. Suitable habitat does not exist within the survey areas. No specimens were found during the surveys.

## CONCLUSION

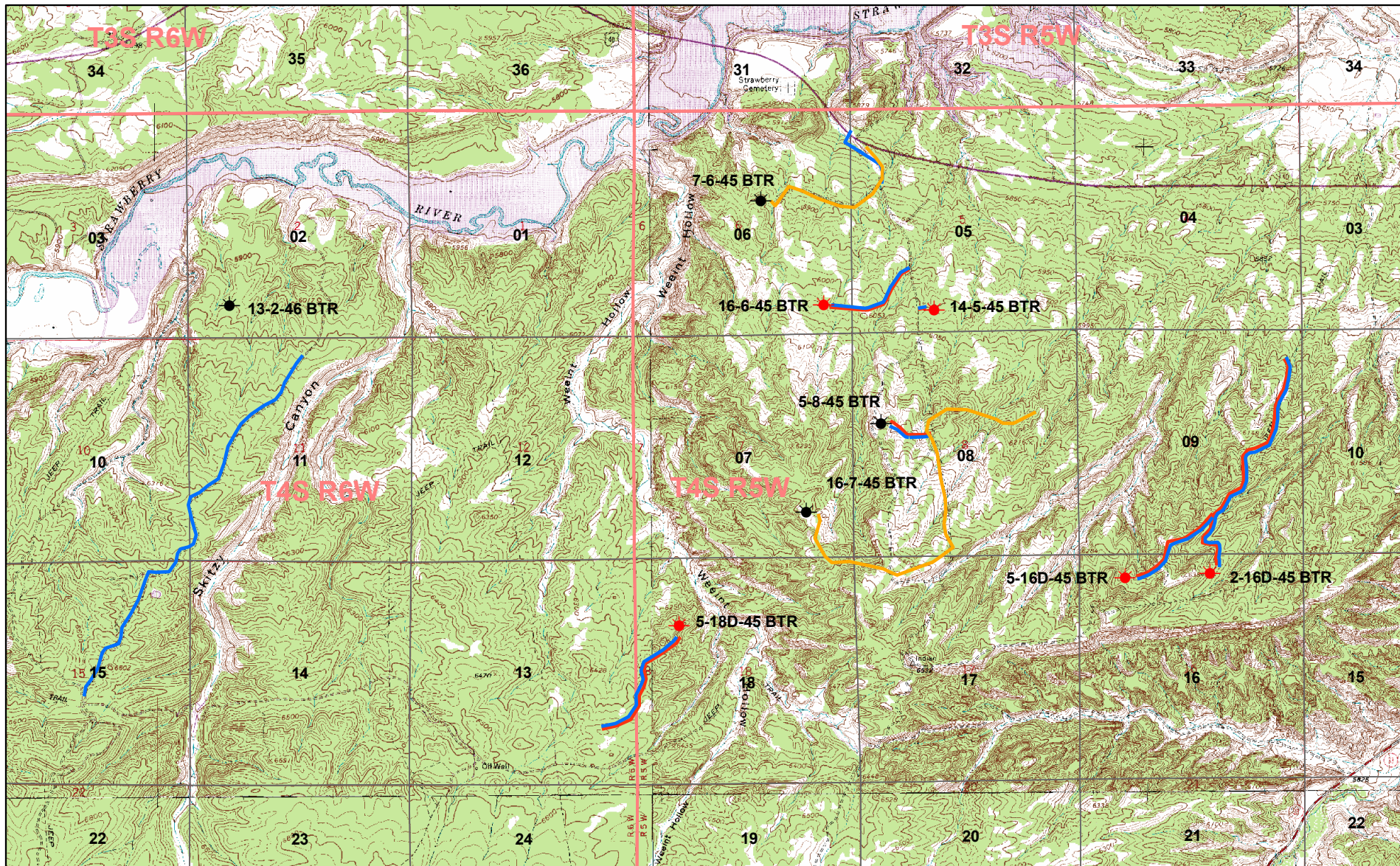
The 2-16D-45 BTR location contains suitable habitat where soils are similar to where Barneby ridge cress is found.

All other survey areas do not contain suitable habitat for any of the species listed and no specimens were found.

## REFERENCES

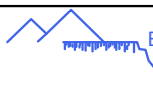
Utah Native Plant Society. 2003-2008. *Utah Rare Plant Guide*. Salt Lake City, UT: Utah Rare Plant Guide Home Page. <http://www.utahrareplants.org>





**Bill Barrett Corporation**

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202



**Environmental  
Industrial  
Services**

Environmental Engineering & Consulting

31 North Main Street  
Helper, Utah 84526  
(435) 472-3814  
fax (435) 472-8780  
eisc@preciscornet



Previous Survey Well Pads



Surveyed Well Pads



Surveyed Pipeline



Surveyed Road

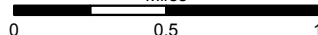


Surveyed Powerline

N



Miles



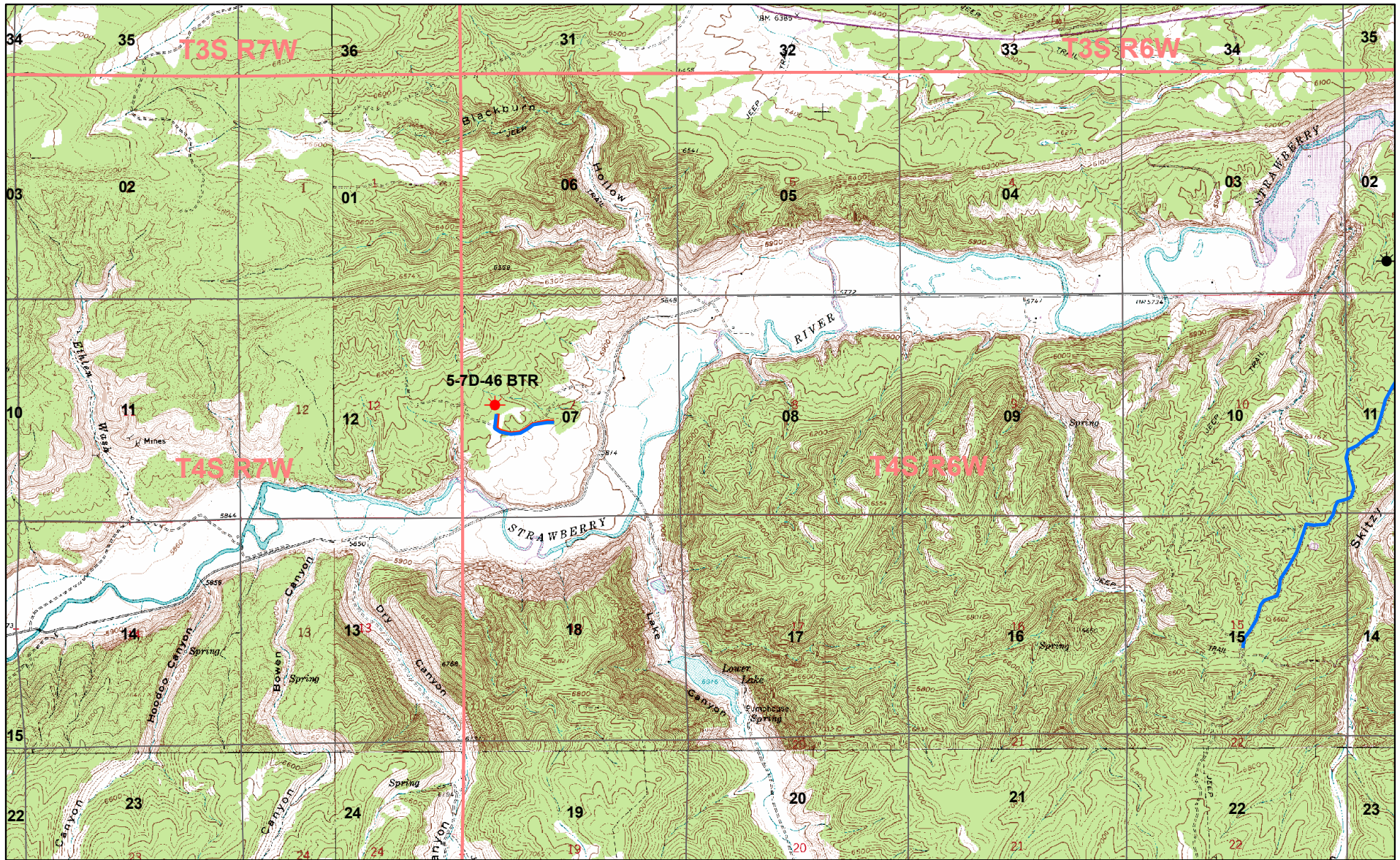
**Lake Canyon and Blacktail Ridge  
TES Species  
Habitat Delineation**  
Duchesne County, Utah

Map 1  
October 22-November 8, 2010



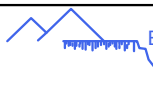






**Bill Barrett Corporation**

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202



**Environmental  
Industrial  
Services**

Environmental Engineering & Consulting

31 North Main Street  
Helper, Utah 84526  
(435) 472-3814  
fax (435) 472-8780  
eisc@preciscom.net



Previous Survey Well Pads



Surveyed Well Pads



Surveyed Pipeline



Surveyed Road



Surveyed Powerline

N



Miles

0 0.5 1

**Lake Canyon and Blacktail Ridge  
TES Species  
Habitat Delineation**  
Duchesne County, Utah

Map 3  
October 22-November 3, 2010



Bill Barrett Corporation Blacktail Ridge Drilling Project  
Threatened, Endangered, and Sensitive Species Habitat Delineation  
October 22 to November 8, 2010



5-7D-45 BTR



14-5-45 BTR





16-6-45 BTR



2-16D-45 BTR





2-16D-45 BTR White Calcareous Shale



5-27D-36 BTR



5-8-45 BTR Pipeline and Access Road



7-16-36 BTR Pipeline Extension



|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |   |
|--|---|---|---|
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input style="width: 100px;" type="text"/> |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:          |   |   |   |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:                           |   |   |   |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>4/1/2011 |   |   |   |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  

No April 2011 monthly activity to report.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY**

|   |                                     |                                |
|---|-------------------------------------|--------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley | <b>PHONE NUMBER</b><br>303 312-8115 | <b>TITLE</b><br>Permit Analyst |
| <b>SIGNATURE</b><br>N/A                   | <b>DATE</b><br>5/4/2011             |                                |

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
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| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
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| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
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| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |   |
|---|---|---|---|
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:   | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input style="width: 100px;" type="text"/> |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:           |   |   |   |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:                            |   |   |   |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>5/31/2011 |   |   |   |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  
 May Monthly Drilling Report: No activity to report.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

|   |                                     |                                |
|---|-------------------------------------|--------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley | <b>PHONE NUMBER</b><br>303 312-8115 | <b>TITLE</b><br>Permit Analyst |
| <b>SIGNATURE</b><br>N/A                   | <b>DATE</b><br>6/3/2011             |                                |

|  |   |  |
|--|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |
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| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |   | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |   | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |   | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |   |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |   |  |
| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>   |  |
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> <b>ACIDIZE</b>   |  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:  | <input type="checkbox"/> <b>ALTER CASING</b>                                      |  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> <b>CASING REPAIR</b>                                     |  |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>6/30/2011  | <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>                          |  |
|  | <input type="checkbox"/> <b>CHANGE WELL STATUS</b>                                |  |
|  | <input type="checkbox"/> <b>CHANGE WELL TYPE</b>                                  |  |
|  | <input type="checkbox"/> <b>DEEPEN</b>  |  |
|  | <input type="checkbox"/> <b>FRACTURE TREAT</b>                                    |  |
|  | <input type="checkbox"/> <b>NEW CONSTRUCTION</b>                                  |  |
|  | <input type="checkbox"/> <b>OPERATOR CHANGE</b>                                   |  |
|  | <input type="checkbox"/> <b>PLUG AND ABANDON</b>                                  |  |
|  | <input type="checkbox"/> <b>PLUG BACK</b>   |  |
|  | <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>                        |  |
|  | <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>                          |  |
|  | <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>                    |  |
|  | <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>                     |  |
|  | <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>                          |  |
|  | <input type="checkbox"/> <b>TEMPORARY ABANDON</b>                                 |  |
|  | <input type="checkbox"/> <b>TUBING REPAIR</b>                                     |  |
|  | <input type="checkbox"/> <b>VENT OR FLARE</b>                                     |  |
|  | <input type="checkbox"/> <b>WATER DISPOSAL</b>                                    |  |
|  | <input type="checkbox"/> <b>WATER SHUTOFF</b>                                     |  |
|  | <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>                            |  |
|  | <input type="checkbox"/> <b>APD EXTENSION</b>                                     |  |
|  | <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>                        |  |
|  | <input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/> |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>No monthly drilling activity to report.   |   |  |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining<br/>         FOR RECORD ONLY</b>   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley  | <b>PHONE NUMBER</b><br>303 312-8115   | <b>TITLE</b><br>Permit Analyst                                   |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>7/1/2011   |  |



## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# H&P 319  
Submitted By Glenn Randel Phone Number 970-623-7078  
Well Name/Number #7-16-36 BTR  
Qtr/Qtr SW/NE Section 16 Township 3S Range 6W  
Lease Serial Number 14-20-H2-6263  
API Number 43-013-34133

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

RECEIVED

JUL 06 2011

DIV. OF OIL, GAS &amp; MINING

Date/Time 07/06/2011 19:00 AM ☐ PM ☒

BOPE

- ☒ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time 07/07/2011 17:30 AM ☐ PM ☒

Remarks \_\_\_\_\_  
\_\_\_\_\_

## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# HP 319  
Submitted By JET LORENZEN Phone Number 970-623-7078  
Well Name/Number #7-16-36 BTR  
Qtr/Qtr SW/NE Section 16 Township 3S Range 6W  
Lease Serial Number 14-20-H62-6263  
API Number 43-013-34133

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing  
☐ Intermediate Casing  
☒ Production Casing  
☐ Liner  
☐ Other

RECEIVED

JUL 19 2011

DIV. OF OIL, GAS &amp; MINING

Date/Time 07/18/2011 17:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION   |   |  |
|---|--|---|--|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>7/18/2011<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <input type="checkbox"/> ACIDIZE<br><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  
 BBC hereby requests to drill this well to a deeper depth. The permitted TD was 10,717'. We are requesting to drill to 10,950'. Verbal permission was granted by Dustin Doucet on 07/18/2011.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: 08/02/2011

By: Dustin Doucet

|  |                                     |                                       |
|--|-------------------------------------|---------------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Venessa Langmacher | <b>PHONE NUMBER</b><br>303 312-8172 | <b>TITLE</b><br>Senior Permit Analyst |
| <b>SIGNATURE</b><br>N/A                          | <b>DATE</b><br>7/18/2011            |                                       |

|  |   |  |
|--|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |
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| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |   | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |   |  |
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| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>   |  |
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> <b>ACIDIZE</b>   |  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:  | <input type="checkbox"/> <b>ALTER CASING</b>                                      |  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> <b>CASING REPAIR</b>                                     |  |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>7/1/2011   | <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>                          |  |
|  | <input type="checkbox"/> <b>CHANGE TUBING</b>                                     |  |
|  | <input type="checkbox"/> <b>CHANGE WELL STATUS</b>                                |  |
|  | <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>                    |  |
|  | <input type="checkbox"/> <b>DEEPEN</b>  |  |
|  | <input type="checkbox"/> <b>FRACTURE TREAT</b>                                    |  |
|  | <input type="checkbox"/> <b>OPERATOR CHANGE</b>                                   |  |
|  | <input type="checkbox"/> <b>PLUG AND ABANDON</b>                                  |  |
|  | <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>                        |  |
|  | <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>                          |  |
|  | <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>                     |  |
|  | <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>                          |  |
|  | <input type="checkbox"/> <b>TUBING REPAIR</b>                                     |  |
|  | <input type="checkbox"/> <b>VENT OR FLARE</b>                                     |  |
|  | <input type="checkbox"/> <b>WATER SHUTOFF</b>                                     |  |
|  | <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>                            |  |
|  | <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>                        |  |
|  | <input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/> |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>July 2011 Monthly Drilling Activity Report attached.  |   |  |
| <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY</b>  |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley  | <b>PHONE NUMBER</b><br>303 312-8115   | <b>TITLE</b><br>Permit Analyst                                   |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>8/3/2011   |  |

**#7-16-36 BTR 7/1/2011 06:00 - 7/2/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

Move/rig up. 98% moved, 70% rigged up. All permit loads off Hwy 40 before 14:00 hrs. - 14, Shut down for night. - 10

**#7-16-36 BTR 7/2/2011 06:00 - 7/3/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

RAISE MAST. CONTINUE RIGGING UP. PERFORMED ANNUAL PLANNED MAINTENANCE ON TOP DRIVE. INSPECT ALL BHA COMPONENTS. MODIFY FLOWLINE. INSTALL 16" AIR UNION ON 16" RISER, INSTALL RISER & INSTALL TURNBUCKLES. MIXED SPUD MUD & RIG UP DIRECTIONAL EQUIPMENT. LOAD PIPE RACK, STRAP TOOLS & COMMENCE PICKING UP BHA. - 24

**#7-16-36 BTR 7/3/2011 06:00 - 7/4/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

FINISH RIGGING UP 16" RISER. FILL HOLE TESTING AIR UNION & TEST MUD LINE BACK TO PUMPS. - 1.5, PICK UP 12 1/4 VERTICAL DRILLING BHA. TAG UP AT 100'. - 2, DRILL 12 1/4 HOLE 100-133'. DRILLED FIRST 20' W/REDUCED PUMP RATE. - 1, INSTALL MWD PROBE & MAKE UP FIRST 8" DC. - 0.5, ROTATE DRILL 12 1/4 HOLE 133-327' MAKING DC CONNECTIONS - 3, SLIDE DRILL 12 1/4 HOLE 327-338'. - 0.25, ROTATE DRILL 12 1/4 HOLE 338-600'. - 2.75, ROUTINE RIG SERVICE. - 0.5, SLIDE DRILL 12 1/4 HOLE 600-612'. - 0.25, ROTATE DRILL 12 1/4 HOLE 612-916'. LOSING ~35 BPH FROM 720'. SLOWED PUMPS & MIXED LCM. - 2.75, TRIP OUT TO TOP OF DC'S. CHANGE SWIVEL PACKING. TRIP IN & WASH LAST JOINT TO 916'. - 1.75, ROTATE DRILL 12 1/4 HOLE 916-978'. - 0.75, SLIDE DRILL 12 1/4 HOLE 966-978'. - 0.25, ROTATE DRILL 12 1/4 HOLE 978-1061'. - 1, SLIDE DRILL 12 1/4 HOLE 1061-1071'. - 0.25, ROTATE DRILL 12 1/4 HOLE 1071-1154'. - 1.5, SLIDE DRILL 12 1/4 HOLE 1154-1164'. - 0.25, ROTATE DRILL 12 1/4 HOLE 1164-1296'. - 2, SLIDE DRILL 12 1/4 HOLE 1296-1302'. STILL OBSERVING SEEPAGE LOSSES & ADDING ~10 SX/HR LCM. - 0.25, ROTATE DRILL 12 1/4 HOLE 1302-1342'. - 1, SLIDE DRILL 12 1/4 HOLE 1342-1357'. CONTROL DRILLING TO <100 FPH WHILE DRILLING W/ONE PUMP. - 0.5

**#7-16-36 BTR 7/4/2011 06:00 - 7/5/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

ROTATE DRILL 12 1/4 HOLE 1357-1438'. CONTROL ROP TO <100 FPH WHILE DRILLING W/ONE PUMP. TWO PUMPS BACK ON LINE 08:15 HRS, 1399'. - 3.25, SLIDE DRILL 12 1/4 HOLE 1438-1453'. - 0.5, ROTATE DRILL 12 1/4 HOLE 1453-1626'. BACK ON ONE PUMP AT 1500', 11:00 HRS TO 1624, 17:20 HRS. - 6.25, ROUTINE RIG SERVICE. - 0.5, ROTATE DRILL 12 1/4 HOLE 1626-1896'. LOST ALL RETURNS. - 6.75, SLOW PUMP, MIX/PUMP 50 BBL LCM PILL & BUILD VOLUME. STAGE UP PUMPS & GOT RETURNS BACK BEFORE PILL EXITED STRING. PLUGGED BIT JET. NEW PRESSURE @ 200 SPM 3000 PSI. - 1.5, ROTATE DRILL 12 1/4 HOLE 1896-1953'. LOST ALL RETURNS. - 1.5, SLOW PUMP, MIX/PUMP 50 BBL LCM PILL & BUILD VOLUME. STAGE UP PUMPS & GOT RETURNS BACK BEFORE PILL EXITED STRING. PLUGGED BIT JET. NEW PRESSURE @ 170 SPM 2950 PSI. SLOW PUMP.

LOSSES APPEAR TO BE INTO FRACTURES. WOB FALLS OFF & RETURNS LOST IMMEDIATELY. - 1.25, ROTATE DRILL 12 1/4 HOLE 1953-2060'. BUILDING VOLUME & HAULING WATER. LOST ALL RETURNS. - 2.5

**#7-16-36 BTR 7/5/2011 06:00 - 7/6/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

SLOW PUMP, MIX/PUMP 50 BBL LCM PILL & BUILD VOLUME. GOT RETURNS BACK BEFORE PILL EXITED STRING. STAGE UP PUMPS. - 1.25, ROTATE DRILL 12 1/4 HOLE 2060-2097'. MIX 50 BBL LCM PILL IN PREPARATION FOR NEXT LOSS ZONE. - 1.25, SLIDE DRILL 12 1/4 HOLE 2097-2110'. - 0.5, ROTATE DRILL 12 1/4 HOLE 2110-2192'. - 2, SLIDE DRILL 12 1/4 HOLE 2192-2212'. - 1, ROTATE DRILL 12 1/4 HOLE 2212-2286'. - 1.5, SLIDE DRILL 12 1/4 HOLE 2286-2311'. - 1, ROTATE DRILL 12 1/4 HOLE 2311-2380'. - 1.5, SLIDE DRILL 12 1/4 HOLE 2380-2400'. - 1, ROTATE DRILL 12 1/4 HOLE 2400-2474'. - 2, SLIDE DRILL 12 1/4 HOLE 2474-2492'. - 1, ROTATE DRILL 12 1/4 HOLE 2492-2569'. - 1.75, SLIDE DRILL 12 1/4 HOLE 2569-2589'.

OBSERVING ~700 U MUD GAS & OIL SPOTS ON SHAKERS. - 1, ROTATE DRILL 12 1/4 HOLE 2589-2662'. - 1.5, SLIDE DRILL 12 1/4 HOLE 2662-2684'. - 1.5, ROTATE DRILL 12 1/4 HOLE 2684-2757'. - 1.25, SLIDE DRILL 12 1/4 HOLE 2757-2779'. - 1, ROTATE DRILL 12 1/4 HOLE 2779-2852'. - 1.5, SLIDE DRILL 12 1/4 HOLE 2852-2858'. - 0.5

**#7-16-36 BTR 7/6/2011 06:00 - 7/7/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

SLIDE DRILL 12 1/4 HOLE 2858-2876'. - 1, ROTATE DRILL 12 1/4 HOLE 2876-2946'. - 1.25, SLIDE DRILL 12 1/4 HOLE 2946-2971'. - 1.25, ROTATE DRILL 12 1/4 HOLE 2971-3014' (12 1/4 HOLE TD). - 1, PUMP 40 BBL HIVIS W/LCM SWEEP & CIRCULATE BOTTOMS UP. - 0.5, SHORT TRIP TO TOP OF DC's (152'). NO HOLE TROUBLE. - 1.25, RIH, WASH LAST 75' TO TD. NO FILL, NO HOLE TROUBLE. - 1.25, PUMP LCM/HIVIS SWEEP & CIRCULATE HOLE CLEAN. MIX SLUG. - 1, POH TO 8" DC's. - 1.5, HELD PJSM & RIG UP WEATHERFORD LAY DOWN TRUCK. EXTRA TIME DUE TO LOCATION SIZE. - 1, LAY DOWN 8" DC's & DIRECTIONAL TOOLS. BIT CONDITION: 1-5-BT-N-X-I-PN-TD. NEARLY ALL WEAR/BT ON NOSE. ONLY 1 BT. VERY LITTLE WEAR IN CONE, SHOULDER OR GAUGE. 5 PLUGGED JETS. - 2, HELD PJSM W/LAY DOWN CREW. RIG UP CRT & HYDRAULIC SLIPS. RE-RIG WEATHERFORD LAY DOWN TRUCK FOR RUNNING CASING. - 1, MAKE UP ONE JT SHOE TRACK. BAKERLOK ALL JT THRU TOP OF FLOAT COLLAR. PUMP THRU SHOE TRACK. CONNECTIONS NOT MAKING UP PROPERLY. TOP DRIVE GUIDE PADS WORN AGAIN. - 0.5, SHIM MAST ON DRAW WORKS SIDE, LAY DOWN JT W/GALLED PIN & ATTEMPT TO MAKE UP ANOTHER JT W/O SUCCESS. MOVE SHIMS TO V-DOOR SIDE & MADE UP JT BETTER. - 2, CONTINUE RUNNING CASING. TOTAL 69 JTS 9 5/8, 36#, J55, STC, R3 CASING. SHOE @ 3004', FLOAT COLLAR @ 2966'. ORDERED OUT WEATHERFORD CASING CREW IN CASE COULDN'T CONTINUE W/CRT. - 3.25, RIG DOWN LAY DOWN TRUCK. ATTEMPT TO CIRCULATE CASING, NO RETURNS W/225 GPM. RECIPROCATING CASING SLOWLY & MIX/PUMP LCM & BUILD VOLUME. SPOT/RIG UP HALLIBURTON CEMENTERS. OBSERVED PARTIAL RETURNS AFTER PUMPING 663 BBL 8.5 PPG MUD W/LCM. CONTINUE TO CIRCULATE MIXING LCM WHILE FINISHING RU CEMENTERS. AT 03:30 HRS IT APPEARED WE HAD ALMOST FULL RETURNS W/ONLY SLIGHT SEEPAGE PUMPING 225 GPM. - 2.5, HELD PJSM & INSTALL CEMENT HEAD & LINE. - 0.25, COMMENCE CEMENT JOB. DETAILS ON TOMORROW'S REPORT. LIMITING RATE TO 4 BPM DUE TO LOSSES. APPROXIMATELY 180 BBL CEMENT PUMPED @ 06:00. - 1.5

**#7-16-36 BTR 7/7/2011 06:00 - 7/8/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

FINISH 9 5/8 CEMENT JOB. HALLIBURTON MIXED/PUMPED 20 BBL WATER, 40 BBL SUPER FLUSH @ 8.33 PPG, 20 BBL WATER, 281 BBL (500 SX, 100% EXCESS) HALCEM LEAD CEMENT +5 pps SILICALITE + 0.125 pps POLY-E-FLAKE + 0.25 pps KWIK SEAL @ 11 PPG, 59 BBL (250 SX, 100% EXCESS) PREM CLASS G TAIL CEMENT +0.5% BWOC CACL2 + 0.125 pps POLY-E-FLAKE @ 14.8 PPG, DROPPED TOP PLUG & DISPLACED W/229 BBL WATER. BUMPED PLUG W/500 PSI OVER FDP (1100 PSI TOTAL PRESSURE). HELD 10 MIN. BLEED OFF 1.1 BBL & FLOATS HELD. OBSERVED PRESSURE RISE FROM <100 PSI TO 550 PSI THE LAST 70 BBL DISPLACEMENT. - 2, WOC WHILE RIG DOWN CEMENTERS FROM RIG FLOOR. RELEASE 16" RISER & CHAIN UP. - 2.75, RELEASE CRT FROM 9 5/8 @ 10:45 HRS & LAY DOWN 16" RISER. RUN 5 JTS (100') OF 1" PIPE IN 16" X 9 5/8 ANNULUS & RIG UP CEMENTERS TO 1". - 1.5, PERFORM TOP CEMENT JOB ON 16" X 9 5/8 ANNULUS W/100 SX (20.5 BBL) CLASS G + 2% CACL2 MIXED @ 15.8 PPG. DISPLACED 1" W/1 BBL WATER. NO FLUID IN SIGHT AT JOB START, BUT FLUID CAME UP TO ~25' FROM GROUND LEVEL, THEN FELL BACK. - 0.5, WOC WHILE CUT OFF 9 5/8 & 16". FINISH CUT 9 5/8 & WELD ON CAMERON 11" 5M CASING HEAD. - 3.75, PERFORM TOP CEMENT JOB #2 ON 16" X 9 5/8 ANNULUS W/100 SX (20 BBL) CLASS G + 2% CACL2 MIXED @ 15.8 PPG. ANNULUS FILLED UP W/~15 BBL & STAYED FULL. - 0.75, RIG DOWN HALLIBURTON & NIPPLE UP 11" 5M BOPE. - 3.75, LAND TEST PLUG IN WELLHEAD & TEST BOPE. RAMS, VALVES, FLANGES, SAFETY VALVES, GRAY VALVES, CHOKE MANIFOLD TO 250/5000 PSI FOR 3 MIN EACH TEST. ANNULAR PREVENTER TO 250/3500 PSI FOR 3 MIN EACH TEST. TEST TOP DRIVE VALVES, KELLY HOSE, STANDPIPE MANIFOLD & BACK TO PUMPS TO 250/5000 PSI FOR 3 MIN EACH TEST. PULL & LAY DOWN TEST PLUG. RUN/LAND WEAR BUSHING. - 5.25, PICK UP & MAKE UP 6 1/2 DIRECTIONAL TOOLS. - 2, FILL STRING & TEST MOTOR/MWD. INSTALL ROTATING RUBBER & RIH TO 2930'. - 1.75

**#7-16-36 BTR 7/8/2011 06:00 - 7/9/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

CIRCULATE & TEST CASING TO 1500 PSI FOR 10 MIN. - 0.5, DRILL SHOE TRACK & 10' OF NEW HOLE. CIRCULATE & REAM SHOE TRACK TWICE. - 1, PERFORM FIT TO 10.5 PPG EMW. APPLIED 325 PSI SURFACE OVER 8.4 PPG FLUID IN HOLE. - 0.25, ROTATE DRILL 8 3/4 VERTICAL HOLE 3024-3088'. - 0.75, SLIDE DRILL 8 3/4 HOLE 3088-3108'. - 1, ROTATE DRILL 8 3/4 HOLE 3108-3402'. - 6, SLIDE DRILL 8 3/4 HOLE 3402-3417'. - 0.5, ROTATE DRILL 8 3/4 HOLE 3417-3496'. - 1.5, ROUTINE RIG SERVICE. - 0.5, SLIDE DRILL 8 3/4 HOLE 3496-3513'. - 0.5, ROTATE DRILL 8 3/4 HOLE 3513-3589'. - 1.5, SLIDE DRILL 8 3/4 HOLE 3589-3599'. - 0.5, ROTATE DRILL 8 3/4 HOLE 3599-3778'. - 3, SLIDE DRILL 8 3/4 HOLE 3778-3798'. - 0.5, ROTATE DRILL 8 3/4 HOLE 3798-3873'. - 1, SLIDE DRILL 8 3/4 HOLE 3873-3895'. - 0.75, ROTATE DRILL 8 3/4 HOLE 3895-3965'. - 1.25, SLIDE DRILL 8 3/4 HOLE 3965-3977'. - 0.5, ROTATE DRILL 8 3/4 HOLE 3977-4061'. - 1.5, SLIDE DRILL 8 3/4 HOLE 4061-4073'. - 0.25, ROTATE DRILL 8 3/4 HOLE 4073-4110'.

HELD BOP DRILL 45 SEC RESPONSE. - 0.75

**#7-16-36 BTR 7/9/2011 06:00 - 7/10/2011 06:00**

| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--------------|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |

## Time Log Summary

ROTATE DRILL 8 3/4 HOLE 4110-4156'. - 1, SLIDE DRILL 8 3/4 HOLE 4156-4171'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4171-4250'. - 2.25, SLIDE DRILL 8 3/4 HOLE 4250-4268'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4268-4245'. - 1.75, SLIDE DRILL 8 3/4 HOLE 4345-4357'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4357-4533'. - 4.75, SLIDE DRILL 8 3/4 HOLE 4533-4548'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4548-4625'. - 1.5, SLIDE DRILL 8 3/4 HOLE 4625-4637'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4637-4721'. - 1, SLIDE DRILL 8 3/4 HOLE 4721-4733'. - 0.5, ROTATE DRILL 8 3/4 HOLE 4733-4814'. - 1.5, SLIDE DRILL 8 3/4 HOLE 4814-4822'. - 0.75, ROTATE DRILL 8 3/4 HOLE 4822-4908'. - 1.25, SLIDE DRILL 8 3/4 HOLE 4908-4928'. - 0.5, ROTATE DRILL 8 3/4 HOLE 4928-5003'. - 1, SLIDE DRILL 8 3/4 HOLE 5003-5029'. - 0.5, ROTATE DRILL 8 3/4 HOLE 5029-5097'. - 1.5, SLIDE DRILL 8 3/4 HOLE 5097-5110'. - 0.5



**#7-16-36 BTR 7/10/2011 06:00 - 7/11/2011 06:00**

| API/UWI   | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|---|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133  | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |
| Time Log Summary  |                |          |                  |             |                    |                     |
| SLIDE DRILL 8 3/4 HOLE 5110-5120'. - 0.5, ROTATE DRILL 8 3/4 HOLE 5120-5193'. - 1.75, SLIDE DRILL 8 3/4 HOLE 5193-5205'. - 0.5, ROTATE DRILL 8 3/4 HOLE 5208-5287'. - 1.25, SLIDE DRILL 8 3/4 HOLE 5287-5305'. - 1, ROTATE DRILL 8 3/4 HOLE 5305-5381'. - 1.5, SLIDE DRILL 8 3/4 HOLE 5381-5398'. - 0.75, ROTATE DRILL 8 3/4 HOLE 5398-5475'. OBSERVED SOME LARGE CAVINGS ON SHAKERS. INCREASE MUD WT TO 9.1-9.2 PPG. - 2.5, ROUTINE RIG SERVICE. - 0.5, ROTATE DRILL 8 3/4 HOLE 5475-5568'. - 2.25, SLIDE DRILL 8 3/4 HOLE 5569-5678'. - 0.5, ROTATE DRILL 8 3/4 HOLE 5578-5662'. - 2.25, SLIDE DRILL 8 3/4 HOLE 5662-5684'. - 1.5, ROTATE DRILL 8 3/4 HOLE 5684-5756 - 1.5, SLIDE DRILL 8 3/4 HOLE 5756-5771'. - 0.75, ROTATE DRILL 8 3/4 HOLE 5771-5849'. - 2, SLIDE DRILL 8 3/4 HOLE 5849-5867'. - 0.75, ROTATE DRILL 8 3/4 HOLE 5867-5946'. - 1.75, SLIDE DRILL 8 3/4 HOLE 5946-5961'. - 0.5 |                |          |                  |             |                    |                     |

**#7-16-36 BTR 7/11/2011 06:00 - 7/12/2011 06:00**

| API/UWI  | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133   | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |
| Time Log Summary   |                |          |                  |             |                    |                     |
| ROTATE DRILL 8 3/4 HOLE 5961-5967'. - 0.5, CIRCULATE, RECIPROCATATE STRING WHILE BUILDING SLUG. PUMP SLUG. - 0.5, POH FOR NEW BIT #3. REMOVE ROTATING RUBBER & LAY DOWN TOP ROLLER REAMER. BIT #2 COND: 3-3-BT-C/S-X-I-WT-PR. ONE CUTTER EACH BROKEN IN CONE & ON NOSE. VERY LITTLE WEAR ELSEWHERE. - 3.75, MAKE UP NEW BIT #3 (HTC Q506F), PICK UP TOP ROLLER REAMER & RIH. INSTALL ROTATING RUBBER. FILL STRING AT 2500 & 5900'. PRECAUTIONARY WASH/REAM 5955-5976'. NO FILL, NO TIGHT HOLE. - 3.75, ROTATE DRILL 8 3/4 HOLE 5976-6134'. - 3.5, SLIDE DRILL 8 3/4 HOLE 6134-6148'. - 1, ROTATE DRILL 8 3/4 HOLE 6148-6227'. - 1.5, SLIDE DRILL 8 3/4 HOLE 6227-6242'. - 0.5, ROTATE DRILL 8 3/4 HOLE 6242-6321'. - 1, SLIDE DRILL 8 3/4 HOLE 6321-6341'. - 0.75, ROTATE DRILL 8 3/4 HOLE 6341-6418'. - 1.25, SLIDE DRILL 8 3/4 HOLE 6418-6438'. - 0.5, ROTATE DRILL 8 3/4 HOLE 6438-6511'. - 1.25, SLIDE DRILL 8 3/4 HOLE 6511-6531'. - 1, ROTATE DRILL 8 3/4 HOLE 6531-6605'. - 1.25, SLIDE DRILL 8 3/4 HOLE 6605-6615'. - 0.5, ROTATE DRILL 8 3/4 HOLE 6615-6700'. - 1.5 |                |          |                  |             |                    |                     |

**#7-16-36 BTR 7/12/2011 06:00 - 7/13/2011 06:00**

| API/UWI  | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type    |
|--|----------------|----------|------------------|-------------|--------------------|---------------------|
| 43-013-34133   | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,972.0           | Drilling/Completion |
| Time Log Summary   |                |          |                  |             |                    |                     |
| SLIDE DRILL 8 3/4 HOLE 6700-6715'. - 1, ROTATE DRILL 8 3/4 HOLE 6715-6795'. - 1.5, SLIDE DRILL 8 3/4 HOLE 6795-6815'. - 0.75, ROTATE DRILL 8 3/4 HOLE 6815-6889'. - 1.25, SLIDE DRILL 8 3/4 HOLE 6889-6917'. - 1.25, ROTATE DRILL 8 3/4 HOLE 6917-6936'. - 0.25, SLIDE DRILL 8 3/4 HOLE 6936-6946'. - 0.5, ROTATE DRILL 8 3/4 HOLE 6946-6983'. - 0.75, SLIDE DRILL 8 3/4 HOLE 6983-6999'. - 1, ROTATE DRILL 8 3/4 HOLE 6999-7026'. - 0.25, SLIDE DRILL 8 3/4 HOLE 7026-7041'. - 0.75, ROTATE DRILL 8 3/4 HOLE 7041-7077'. - 0.5, ROUTINE RIG SERVICE. - 0.5, SLIDE DRILL 8 3/4 HOLE 7077-7085'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7085-7120'. - 0.75, SLIDE DRILL 8 3/4 HOLE 7120-7137'. - 1, ROTATE DRILL 8 3/4 HOLE 7137-7170'. - 0.5, SLIDE DRILL 8 3/4 HOLE 7170-7182'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7182-7219'. - 0.5, SLIDE DRILL 8 3/4 HOLE 7218-7230'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7230-7265'. - 0.5, SLIDE DRILL 8 3/4 HOLE 7265-7280'. - 0.75, ROTATE DRILL 8 3/4 HOLE 7280-7312'. - 0.5, SLIDE DRILL 8 3/4 HOLE 7312-7327'. - 0.75, ROTATE DRILL 8 3/4 HOLE 7327-7361'. - 0.75, SLIDE DRILL 8 3/4 HOLE 7361-7378'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7378-7407'. - 0.75, SLIDE DRILL 8 3/4 HOLE 7407-7419'. - 0.75, ROTATE DRILL 8 3/4 HOLE 7419-7452'. - 0.75, SLIDE DRILL 8 3/4 HOLE 7452-7464'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7464-7548 - 1.5, SLIDE DRILL 8 3/4 HOLE 7548-7558'. - 0.5, ROTATE DRILL 8 3/4 HOLE 7558-7595'. - 0.5, SLIDE DRILL 8 3/4 HOLE 7595-7607'. - 0.5 |                |          |                  |             |                    |                     |

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |  | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |  |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |  |  |
| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>  |  |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:   | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK<br><input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION<br><input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/> |  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>8/21/2011   |  |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  |  |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:   |  |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>This sundry is being submitted to notify that this well had first gas sales on 8/21/2011 and first oil sales on 8/22/2011.                                  |  |  |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining<br/>         FOR RECORD ONLY</b>   |  |  |
| <b>NAME (PLEASE PRINT)</b><br>Venessa Langmacher   | <b>PHONE NUMBER</b><br>303 312-8172  | <b>TITLE</b><br>Senior Permit Analyst                            |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>8/22/2011   |  |

|  |   |  |
|--|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP   |   | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202  |   | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U  |   | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>9. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM  |   | <b>COUNTY:</b><br>DUCHESNE                                       |
| <b>STATE:</b><br>UTAH  |   |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |   |  |
| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>   |  |
| <input type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:  | <input type="checkbox"/> <b>ACIDIZE</b>   |  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:  | <input type="checkbox"/> <b>ALTER CASING</b>                                      |  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> <b>CASING REPAIR</b>                                     |  |
| <input checked="" type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:<br>8/31/2011  | <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>                          |  |
|  | <input type="checkbox"/> <b>CHANGE WELL STATUS</b>                                |  |
|  | <input type="checkbox"/> <b>CHANGE WELL TYPE</b>                                  |  |
|  | <input type="checkbox"/> <b>DEEPEN</b>  |  |
|  | <input type="checkbox"/> <b>FRACTURE TREAT</b>                                    |  |
|  | <input type="checkbox"/> <b>NEW CONSTRUCTION</b>                                  |  |
|  | <input type="checkbox"/> <b>OPERATOR CHANGE</b>                                   |  |
|  | <input type="checkbox"/> <b>PLUG AND ABANDON</b>                                  |  |
|  | <input type="checkbox"/> <b>PLUG BACK</b>   |  |
|  | <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>                        |  |
|  | <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>                          |  |
|  | <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>                    |  |
|  | <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>                     |  |
|  | <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>                          |  |
|  | <input type="checkbox"/> <b>TEMPORARY ABANDON</b>                                 |  |
|  | <input type="checkbox"/> <b>TUBING REPAIR</b>                                     |  |
|  | <input type="checkbox"/> <b>VENT OR FLARE</b>                                     |  |
|  | <input type="checkbox"/> <b>WATER DISPOSAL</b>                                    |  |
|  | <input type="checkbox"/> <b>WATER SHUTOFF</b>                                     |  |
|  | <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>                            |  |
|  | <input type="checkbox"/> <b>APD EXTENSION</b>                                     |  |
|  | <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>                        |  |
|  | <input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/> |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>August 2011 Monthly Drilling Activity Report attached.  |   |  |
| <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY</b>  |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley  | <b>PHONE NUMBER</b><br>303 312-8115   | <b>TITLE</b><br>Permit Analyst                                   |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>9/6/2011   |  |

**#7-16-36 BTR 8/1/2011 06:00 - 8/2/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
|------------|----------|----------|------|--------------------|--|
| 06:00      | 24.00    | 06:00    | GOP  | General Operations | MIRU WP&D Fill Manifold On Frac Line. Production Crews Finishing Up Insulating Production Tanks. |

**#7-16-36 BTR 8/2/2011 06:00 - 8/3/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category | Com |
|------------|----------|----------|------|----------|-----|
|            |          |          |      |          |     |

**#7-16-36 BTR 8/3/2011 06:00 - 8/4/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com            |
|------------|----------|----------|------|--------------------|----------------|
| 06:00      | 12.00    | 18:00    | GOP  | General Operations | Prep for frac. |
| 18:00      | 12.00    | 06:00    | SRIG | Rig Up/Down        | MIRU w/o Rig   |

**#7-16-36 BTR 8/4/2011 06:00 - 8/5/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category               | Com  |
|------------|----------|----------|------|------------------------|--|
| 06:00      | 1.00     | 07:00    | LOCL | Lock Wellhead & Secure | WSI.   |
| 07:00      | 0.50     | 07:30    | SMTG | Safety Meeting         | JSA Safety Meeting   |
| 07:30      | 1.50     | 09:00    | BOPI | Install BOP's          | ND Frac Tree, NU BOP & Annular.  |
| 09:00      | 2.50     | 11:30    | GOP  | General Operations     | Unload Tbg. & Talley   |
| 11:30      | 6.00     | 17:30    | RUTB | Run Tubing             | PU 4 5/8" Chomp mill, 2 7/8" Bit sub, Cont. PU tbg.  |
| 17:30      | 3.00     | 20:30    | CLN  | Clean Out Hole         | Tag 40' above FC, RU Swivel, Establish circulation, Clean out to @ 10765' Circulated Bottoms up. Lay down 2 Jts. Csg. Talley Showed FC @ 10852'. We Drilled out FC @ 10750'. |
| 20:30      | 9.50     | 06:00    | LOCL | Lock Wellhead & Secure | WSI. SDFN  |

**#7-16-36 BTR 8/5/2011 06:00 - 8/6/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category               | Com   |
|------------|----------|----------|------|------------------------|---|
| 06:00      | 1.00     | 07:00    | LOCL | Lock Wellhead & Secure | WSI.  |
| 07:00      | 0.50     | 07:30    | SMTG | Safety Meeting         | JSA Safety Meeting                                      |
| 07:30      | 0.50     | 08:00    | SRIG | Rig Up/Down            | RD swivel   |
| 08:00      | 5.00     | 13:00    | PULT | Pull Tubing            | Laydown Tbg.  |
| 13:00      | 0.50     | 13:30    | SRIG | Rig Up/Down            | RD Tbg. equip. & work floor                             |
| 13:30      | 0.50     | 14:00    | BOPR | Remove BOP's           | ND BOP stack, NU Frac tree & Retest frac mandrel seals. |
| 14:00      | 2.00     | 16:00    | SRIG | Rig Up/Down            | Load out all rig equip. RDMO w/o Rig.                   |
| 16:00      | 14.00    | 06:00    | LOCL | Lock Wellhead & Secure | WSI.  |

**#7-16-36 BTR 8/6/2011 06:00 - 8/7/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
|------------|----------|----------|------|--------------------|--|
| 06:00      | 24.00    | 06:00    | GOP  | General Operations | Moved in half of the frac equipment, waiting on Halliburton blender to arrive, still in the shop getting repairs done to it. Started trucking in sand. |

**#7-16-36 BTR 8/7/2011 06:00 - 8/8/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|



| Time Log   |          |          |      |                    |  |
|------------|----------|----------|------|--------------------|--|
| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
| 06:00      | 1.00     | 07:00    | GOP  | General Operations | Well shut in and secured, HES yard call @ 04:00, Traveled to location with Blender, Spotted in remaining frac equipment. Pre-rig up safety meeting.  |
| 07:00      | 3.50     | 10:30    | PFRT | Perforating        | Safety meeting with SLB, Rig up Crane, P/up e-line BOP's, Connected BOP's to frac tree. P/up pressure control equipment & lubricator, Connected to BOP's, R/U pressures test unit, pressures tested e-line equipment to 4500 psi, test held good. Bled off pressure, disconnect lub. P/up stg #1 Perf guns. RIH with E-line, found fluid level @ 1000', pre-loaded hole with 3% while running in with e-line. Located 38' marker jt @ 8390' to 8428', made correlation pass across marker jts. Made depth correction to CCL to log referenced to (CBL/CCL/GR 7/26/11 by SLB.) Drop down to target interval @ 10,793' to 10795', tagged high @ 10770', pulled up and ran collar strip. CCL still on depth, drop down and tagged high again. 10,770' made adjustment to addressable switch's, due to being unable to shoot perfs from 10,793' to 10,795', and 10,783' to 10,784', Pulled up to 10,764' with the bottom set of guns, and Perf from 10,762' to 10,764', Continued to pull up and shooting Perf from 10,748' to 10,749, 10,733' to 10,734', 10,717' to 10,718', 10,712' to 10,713', 10,707' to 10,708', 10,697' to 10,698', 10,685' to 10,686', 10,678' to 10,679', 10,673' to 10,674', 10,665' to 10,666', 10,631' to 10632', 10,615' to 10,616. POOH well was on a vacuum, L/D spent guns verified that shots 1,- 4,5,6,7,8,9,10,11,12,13 all fired and not guns 2,3. Turned well over to HES.  |
| 10:30      | 1.00     | 11:30    | GOP  | General Operations | Finished rigging up HES frac equipment.  |
| 11:30      | 2.50     | 14:00    | FRAC | Frac. Job          | Pressure tested treating iron @ 8500 psi. Stg # 1 of 12, Zone Stg CR-7A & CR-7, Water Temp @ 75°<br>Open Well @ 12:30 Hrs, @ 780 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10.4 bpm, 3560 psi. Started on 15%HCL @ 10.2 bpm 3054 psi, Pumped Bioballs @ 30 bpm 4008 psi. Total Bbls of 15% HCL Pump 114 bbls & Bio-Balls pumped 96, Seen Good ball action, Shut down pumps, surged casing 3 times. waited for 15 minutes. Started on 3% KCL / Produce Water pad @ 70.3 bpm, 4973 psi, shut down 10,000 gal into the stage for ISIP. Open Perforation= 38 out of 42 shots, ISIP = 2821 psi, .71 Frac Gradient<br>Started on 24# Hybor / X-link pad @ 70.8 bpm, 5146 psi. Start 2# / Gal 20/40 CRC sand, 70.4 bpm, 5136 psi<br>2# 70.5 bpm, 5136 psi 2# On perfs bpm 70.5 @ 4851 psi, fluids looked fair, seen sharp increase in net pressure after 2# ppg sand hit perfs.<br>3# 70.4 bpm, 4890 psi 3# On perfs bpm 70.4 @ 5103' psi, net pressure continued to build, Cut sand and went to flash early. On Flush @, 72.0 bpm, 5400 psi. Final Injection, 71.0 bpm, 5903 psi<br>Open Perforation= 21 out of 42 shots, ISDP, 3197 psi, 0.74 Frac Gradient.<br>Max Rate 73.1 bpm, Max Pressure 5986 psi. Avg Rate 65.5 bpm, Avg Pressure 4907 psi<br>Total X-link fluids pumped: 807 bbls<br>Total produce water pumped: 1772 bbls<br>Total fluid in bbls pumped: 2693 bbls<br>Total CRC Sand pumped, 20/40 CRC= 48,300#. Only 30% of Proppant was placed in formation. We ended up cutting 1,078 sks of Proppant out of this zone. Job was not pumped as design. |
| 14:00      | 2.00     | 16:00    | PFRT | Perforating        | R/U E-line, P/up stg #2 4.625" 10K fast drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 7/26/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10,506', with 2550 psi, pulled up and perforated stg #2 intervals from 10,377' to 10585'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #2.  |

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com   |
|------------|----------|----------|------|--------------------|---|
| 16:00      | 2.00     | 18:00    | FRAC | Frac. Job          | Pressure tested treating iron @ 8500 psi. Stg # 2 of 12, Zone Stg CR-6, Water Temp @ 75 *<br>Open Well @ 15:57 Hrs, @ 2387 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 9.4 bpm, 2801 psi. Started on 15%HCL @ 10.0 bpm 2914 psi, Pumped Bioballs @ 29.9bpm 3651 psi.<br>Total Bbls of 15% HCL Pump 92 bbls & Bio-Balls pumped 78. Seen good ball action, surged frac balls, shut down for 15 minutes. Started on 3% KCL / Produce Water pad @ 69.9 bpm, 5517 psi. Open Perforation= 29 out of 39 shots, ISIP= 2738 psi, .70 Frac Gradient. Started on 24# Hybor / X-link pad @ 70.7 bpm, 5001 psi. Start 2#/ Gal 20/40 CRC sand, 70.7 bpm, 4821 psi<br>2# 70.2 bpm, 4350 psi 2# On perms bpm 70.2 @ 4291 psi cp21, X-link ph 9.9, temp75*<br>3# 70.2 bpm, 4295 psi 3# On perms bpm 70.1 @ 4039 psi cp 21, X-link ph 9.7 temp 76*<br>3.5# 45 bpm, 3302 psi Lost Micro motion on the Gel-Pro Unit. had to cut sand in 3.5# stg due to loosing the micro motion on the gel-pro unit, lost LGC-36, went to flush.<br>On Flush @, 70.2 bpm, 4950 psi. Final Injection, 20.4 bpm, 3362 psi. Open Perforation = 27 out of 39 shots, ISDP, 3010 psi, 0.73 Frac Gradient. Max Rate 71.4 bpm, Max Pressure 5554 psi..Avg Rate 63.4 bpm, Avg Pressure 4506 psi<br>Total X-link fluids pumped: 889 bbls<br>Total produce water pumped: 1328 bbls<br>Total fluid in bbls pumped: 2314 bbls<br>Total Sand pumped, 20/40 CRC = 72,600#, Job design called for 99,800# of 20/40 CRC. Only 72% of Prop was placed in formation. |
| 18:00      | 2.00     | 20:00    | PFRT | Perforating        | R/U E-line, P/up stg # 3 4.625" 10K fast drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 7/26/11. Made depth correction to CCL from marker jt @ 8390' - 8428', drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10,365', with 2725 psi, pulled up and perforated stg # 3 intervals from 10,155' to 10,335'. POOH w/ e-line, L/D Spent guns, All shots fired as design.Turned Well over to HES to Frac stg #3. both crews are currently out of ours.  |
| 20:00      | 10.00    | 06:00    | GOP  | General Operations | Continued to truck in sand & water throughout the evening. Frac tree Shut in and secured.   |

**#7-16-36 BTR 8/8/2011 06:00 - 8/9/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
|------------|----------|----------|------|--------------------|--|
| 06:00      | 2.00     | 08:00    | GOP  | General Operations | Frac crew arrived @ 05:00 am, Started Frac equipment and primed pumps. Ran QA/QC fluid checks. Pressure tested treating iron to 8489 psi. Safety meeting with Frac crew, discuss hazards around working with pressurized equipment. Had to wait on acid transport to come from Vernal Yard. Transport arrived on location @ 07:00, Geared up to frac stage #3. |





| Time Log   |          |          |      |                        |   |
|------------|----------|----------|------|------------------------|---|
| Start Time | Dur (hr) | End Time | Code | Category               | Com   |
| 08:00      | 1.00     | 09:00    | FRAC | Frac. Job              | Pressure tested treating iron @ 8498 psi. Stg # 3 of 12, Zone Stg CR-4A and CR-5 Water Temp @ 75°<br>Open Well @ 08:00 Hrs, @ 2150 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 14.3 bpm, 3240 psi. Started on 15%HCL @ 10.0 bpm 3031 psi, Pumped Bioballs @ 29.9 bpm 3578 psi. drop rate several times due to balls hitting perfs. seen good ball action surged frac balls 3-times shut down for 15 minutes..Total Bbls of 15% HCL Pump 92 bbls & Bio-Balls pumped 78 Started on 3% KCL / Produce Water pad @ 70.1 bpm, 5122 psi. Open Perforation= 39 out of 39 shots, ISIP = 2723 psi, .71 Frac Gradient, Started on X-link pad @ 70.1 bpm, 5128 psi, Visc on liner gel was at a 12 cp, was unable to get fluids to X-link, drop rate to allow crews to get the Visc to come up. Visc come up to a 18 cp seen good X-link, went to 20/40 CRC, 2#/ Gal @ 70.5 bpm, 4996 psi<br>2# 70.5 bpm, 4990 psi 2# On perfs bpm 70.5 @ 4611 psi, x-link ph 9.7, temp 79, 18 cp.<br>3# 70.5 bpm, 4504 psi 3# On perfs bpm 70.5 @ 4261 psi, x-link ph 9.8, temp 79, 20 cp<br>3.5# 70.5 bpm, 4348 psi 3.5# On perfs bpm 70.5 @ 4362 psi<br>4# 70.5 bpm, 4416 psi 4# On perfs bpm 70.5 @ 4620 psi<br>On Flush @, 73.1 bpm, 4801 psi. Final Injection, 70.3 bpm, 5217 psi<br>Open Perforation = 39 out of 39 shots, ISDP, 3477 psi, 0.78 Frac Gradient.<br>Max Rate 73.1 bpm, Max Pressure 5333 psi.<br>Avg Rate 63.8 bpm, Avg Pressure 4613 psi<br>Total X-link fluids pumped: 1768 bbls<br>Total produce water pumped:1828 bbls<br>Total fluid in bbls pumped: 3689 bbls<br>Total Sand pumped, 20/40 = 166,550# of CRC, job was pump as design. |
| 09:00      | 1.50     | 10:30    | PFRT | Perforating            | R/U E-line, P/up stg #4, 4.625"10K Fast drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 7/26/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10145', with 2625 psi, pulled up and perforated stg #4 intervals from 9963' to 10,127'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #4.   |
| 10:30      | 1.50     | 12:00    | FRAC | Frac. Job              | Pressure tested treating iron @ 8102 psi. Stg # 4 of 12, Zone Stg CR-4, Water Temp @ 81 °. Open Well @ 11:25 Hrs, @ 2301 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 14.7 bpm, 3781 psi.<br>Started on 15%HCL @ 10.0 bpm 3172 psi, Pumped Bioballs @ 29.8 bpm 4199 psi. seen good ball action ,drop rate, flush acid through perfs. shut down surged well three time. shut down for 15 minutes.<br>Total Bbls of 15% HCL Pump, 92 bbls & Bio-Balls pumped 78. Started on 3% KCL / Produce Water pad @ 70.3 bpm, 5339 psi shut down for open perf's, Open Perforation= 36 out of 39 shots, ISIP= 2712 psi, .71 Frac Gradient. Started on 22# Hybor, X-link pad @ 70.3 bpm, 4751 psi Start 2#/ Gal 20/40 CRC sand @ 70.1 bpm, 4876 psi<br>2# 70.0 bpm, 4810 psi 2# On perfs bpm 70.2 @ 4560 psi Visc 19 cp, x-link ph 10.4, temp 81, Back MO-67 down.<br>3# 70.3 bpm, 4810 psi 3# On perfs bpm 70.2 @ 4193 psi Visc 18 cp, x-link ph 10.0, temp 81.<br>3.5# 70.1 bpm, 4232 psi 3.5# On perfs bpm 70.2 @ 3450 psi Visc 18 cp, x-link ph 10.1, temp 81.<br>4# 70.4 bpm, 4600 psi 4# On perfs bpm 70.1 @ 4851 psi<br>On Flush @, 69.4 bpm, 5187 psi. Final Injection, 48 bpm, 5588 psi. Open Perforation = 30 out of 39 shots, ISDP, 2712 psi, 0.71 Frac Gradient.<br>Max Rate 71.0 bpm, Max Pressure 6011 psi.<br>Avg Rate 68.9 bpm, Avg Pressure 4630 psi<br>Total X-link fluids pumped:1623 bbls<br>Total produce water pumped:1566 bbls<br>Total fluid in bbls pumped: 3283 bbls<br>Total Sand pumped, 20/40 CRC = 166,500#, Job was pumped as design.  |
| 12:00      | 1.50     | 13:30    | PFRT | Perforating            | R/U E-line, P/up stg #5 4.625" 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 7/27/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 9938', with 2600 psi, pulled up and perforated stg #5 intervals from 9731' to 9916'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #5. Plan to frac stg #5 in the am hours.   |
| 13:30      | 16.50    | 06:00    | LOCL | Lock Wellhead & Secure | Secured Frac tree and location, continued to re-stock frac sand, 3% kcl & production water.   |

**#7-16-36 BTR 8/9/2011 06:00 - 8/10/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|



| Time Log   |          |          |      |                        |   |  |
|------------|----------|----------|------|------------------------|---|--|
| Start Time | Dur (hr) | End Time | Code | Category               | Com   |  |
| 06:00      | 1.00     | 07:00    | LOCL | Lock Wellhead & Secure | Frac tree shut in and secured. 650 psi on the Well, Frac crew arrived at 05:00 hour, started pump trucks, primed pumps, ran QA/QC fluid checks, pressure tested treating iron to 8500 psi, good test, Safety meeting with frac crew. Open well started going down hole.   |  |
| 07:00      | 4.00     | 11:00    | FRAC | Frac. Job              | <p>Stg # 5 of 12, Zone Stg CR-4, Water Temp @ 78 *. Open Well @ 06:58 Hrs, @ 650 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 9.9 bpm, 3437 psi..Started on 15%HCL @ 10.0 bpm 3300 psi, Pumped Bioballs @ 30 bpm 3807 psi.Total Bbls of 15% HCL Pump 92 bbls &amp; Bio-Balls pumped 78. Seen good ball action, shut down surged frac balls, waited 15 minutes. Started on 3% KCL / Produce Water pad @ 71.0 bpm, 5139 psi, shut down for open perms. Open Perforation= 39 out of 39 shots, ISIP= 2619 psi, .71 Frac Gradient . Started on 20# X-link pad @ 70.2 bpm, 5514 psi, fluids looked good. Start 2#/ Gal 20/40 CRC sand, 70.2 bpm, 5690 psi.</p> <p>2# 70.2 bpm, 5205 psi 2# On perms bpm 70.2 @ 5238 psi</p> <p>3# 70.4 bpm, 5376 psi 3# On perms bpm 70.2 @ 5480 psi Cut sand early due to sharp increase in net pressure.</p> <p>On Flush @, 70 bpm, 5601 psi. Final Injection, 70.0 bpm, 5978 psi. Open Perforation = 29 out of 39 shots, ISDP, 2619 psi, 0.71 Frac Gradient. Max Rate 71.3 bpm, Max Pressure 5902 psi. Avg Rate 70.5 bpm, Avg Pressure 5495 psi Total X-link fluids pumped: 663 bbls .Total produce water pumped: 2105 bbls..Total Sand pumped, 20/40 = 31,300#. Called Denver to discuss options on re pumping stage, ended up pumping 1.5 time the well bore volume and established an injection rate @ 70 bpm, initiated well bore flush to 70 bpm @ 5604 psi. shut down and called Denver to reevaluate new job design.</p> <p>Open well @ 10:20 am, Worked pump rate up to 70.9 bpm,@ 5702 psi. Started on 3% KCL / Produce Water pad @ 70.8 bpm, 5680 psi. Started on 22# X-link pad @ 70.9 bpm, 5482 psi. Start .50#/ Gal 20/40 CRC, 70.3 bpm,5694 psi. Seen pressure spike when .50 sand hit perf's to 5784 psi, with pressure increasing, cut sand on 1# ppg sand. went to flush @ 70. bpm @ 5835 psi, Final Flush rate @ 70.0 @5987 psi. placed only 7000 # of sand in formation. Total prop in stg #5 38,300# of 23% of sand in formation.</p> <p>Called Denver, the decision was made to move to stg #6. Total fluid in bbls pumped: 4549 bbls</p> |  |
| 11:00      | 1.50     | 12:30    | PFRT | Perforating            | R/U E-line, P/up stg #6, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 7/26/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 9721', with 2325 psi, pulled up and perforated stg #6 intervals from 9515' to 9705'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #6.  |  |
| 12:30      | 1.00     | 13:30    | FRAC | Frac. Job              | <p>Pressure tested treating iron @ 8290 psi. Stg #6 of 12, Zone Stg CR-3 Water Temp @ 75 *</p> <p>Open Well @ 12:30 Hrs, @ 776 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 9.9 bpm, 2746 psi. Started on 15%HCL @ 9.9 bpm 2746 psi, Pumped Bioballs @ 29.9 bpm 3602 psi.Total Bbls of 15% HCL Pump 92 bbls &amp; Bio-Balls pumped 78, good frac ball action. surged frac ball off perms, waited for 15 minutes Started on 3% KCL / Produce Water pad @ 71.3 bpm, 4472 psi. Open Perforation= 39 out of 39 shots, ISIP= psi, .70 Frac Gradient Started on 22# X-link pad @ 71.3 bpm, 4472 psi. Start 1#/ Gal 20/40 CRC sand, 71.0 bpm, 4670 psi</p> <p>1# 71.0 bpm, 4670 psi 1# On perms bpm 71.0 @ 4435 psi</p> <p>2# 70.4 bpm, 4438 psi 2# On perms bpm 70.6 @ 4430 psi</p> <p>3# 70.4 bpm, 4677 psi 3# On perms bpm 70.3 @ 4826 psi</p> <p>Cut sand on 3# ppg sand due to increase in net pressure.</p> <p>On Flush @, 71 bpm, 5877 psi, had to drop rate due to well pressuring out.</p> <p>Final Injection, 40 bpm, 6890 psi, had to shut down pumps due to screen out.</p> <p>Max Rate 72.1 bpm, Max Pressure 7334 psi.</p> <p>Avg Rate 65.1 bpm, Avg Pressure 4696 psi</p> <p>Total X-link fluids pumped: 1217 bbls</p> <p>Total produce water pumped:1459 bbls</p> <p>Total fluid in bbls pumped: 2769 bbls</p> <p>Total Sand pumped, 20/40 CRC = 85,300# only placed 65% of prop in formation.</p>   |  |
| 13:30      | 2.00     | 15:30    | FBCK | Flowback Well          | Open well on a 24/64" choke. pressure drop from 2890 psi to 0, open choke to a 48/64" well was flow back 1 bpm then die off. flowed back 28 bbls total. Called Denver decision was made to shut the well in and tag sand top in the am. Checked pressures when securing frac tree, Well was on a vacuum.  |  |
| 15:30      | 14.50    | 06:00    | LOCL | Lock Wellhead & Secure | Well shut in secured.   |  |

**#7-16-36 BTR 8/10/2011 06:00 - 8/11/2011 06:00**

|              |                |          |                  |             |                    |                    |
|--------------|----------------|----------|------------------|-------------|--------------------|--------------------|
| API/UWI      | State/Province | County   | Field Name       | Well Status | Total Depth (ftKB) | Primary Job Type   |
| 43-013-34133 | UT             | DUCHESNE | Black Tail Ridge | Concept     | 10,950.0           | Initial Completion |



| Time Log   |          |          |      |                        |  |  |
|------------|----------|----------|------|------------------------|--|--|
| Start Time | Dur (hr) | End Time | Code | Category               | Com  |  |
| 06:00      | 1.50     | 07:30    | WLWK | Wireline               | Safety meeting with wireline crew, checked pressure on the frac tree, -0 # well on a vacuum. started e-line equipment, P/up 4.625" gauge ring and junk basket, RIH & located marker jts @ 8390' to 8428', Completed depth correlation to CCL, drop down and tagged sand top @ 9172", tagged several times to verify sand top. unable to reach target depth @ 9495' for stg #7, currently have 323' of sand covering stg #7 interval. |  |
| 07:30      | 1.00     | 08:30    | TRIP | Tripping               | POOH with e-line. R/D and moved e-line equipment off to the side of location,  |  |
| 08:30      | 2.50     | 11:00    | SRIG | Rig Up/Down            | Safety meeting with frac crew, rigged down and moved some of the frac equipment away from the well head. To make room for HES coil tbq unit.   |  |
| 11:00      | 19.00    | 06:00    | LOCL | Lock Wellhead & Secure | Secured frac tree and location. Waiting on coil tbq unit.  |  |

**#7-16-36 BTR 8/11/2011 06:00 - 8/12/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                        |  |  |
|------------|----------|----------|------|------------------------|--|--|
| Start Time | Dur (hr) | End Time | Code | Category               | Com  |  |
| 06:00      | 10.00    | 16:00    | LOCL | Lock Wellhead & Secure | Well pressure still @ -0 psi, HSE coil tbq crew left Rock Springs yard @ 04:00, then arrived in Duchesne @ 16:00 hrs. travel to location.  |  |
| 16:00      | 5.00     | 21:00    | SRIG | Rig Up/Down            | Spotted Coil equipment on location. safety meeting with coil crew. Rigged up crane P/up injector head, stripper and lub, made up coil connector to 1.75" coil, filled reel with 3% kcl, pressure test coil connector, then pull test to 25k, good test P/up 4.75" drag bit & motor, Made p tools.  |  |
| 21:00      | 4.00     | 01:00    | TRIP | Tripping               | RIH with 1.75" coil and BHA. started pump 70/30 quality gen/N2 @ 1.0 bpm, tagged sand @ 9183' coil tbq measurements, increase rate to 2.5 bpm with full returns to flow back tanks. wash down 100' at a time, then wipe 50', continued pumping gel sweeps, continued to wash down to CBP @ 9719', coil tbq measurements, pulled up 10' off of CBP, C/C hole, pumping gel sweeps. circulated for 15 minutes on bottom then start out of the hole @ 80' to 90' fpm, continued pumping at 2.5 bpm all the way out of the hole. Seen sand in flow back tank returns. Stopped pumping gen @ 2500', lost fluid returns @ 1300', total bbls recovered 455 bbls. bump up coil in and secured lower master valve. |  |
| 01:00      | 2.00     | 03:00    | SRIG | Rig Up/Down            | Disconnected lub, L/D BHA, blew reel dry.  |  |
| 03:00      | 3.00     | 06:00    | SRIG | Rig Up/Down            | R/D HES coil tbq crew. move off location.  |  |

**#7-16-36 BTR 8/12/2011 06:00 - 8/13/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                        |   |  |
|------------|----------|----------|------|------------------------|---|--|
| Start Time | Dur (hr) | End Time | Code | Category               | Com   |  |
| 06:00      | 3.00     | 09:00    | CTUW | W/L Operation          | Finish Moving HES Coil Equipment Off Location, MIRU SLB W/L. Pick Up Lubricator And 4.85" Junk Basket And Weight Bars. RIH With 4.65" Junk Basket, Running Into Obstruction At 9185', POOH. LD Junk Basket, P/U Weight Bar, RBIH.   |  |
| 09:00      | 1.00     | 10:00    | CTUW | W/L Operation          | RIH with 31/8" weight bar, tagged obstruction @ 9215, POOH with E-line, L/D weight bars. secured crane and lubricator.  |  |
| 10:00      | 1.00     | 11:00    | GOP  | General Operations     | R/U stand pipes and pump equipment, pressured tested treating iron to 8500#, good test. Bled off 700#, open upper master valves. pumped 60 bbls of 3 % kcl, well pressured out to 6500 psi, shut pumps down, surged well several times and drop pressure, then pressured back up on casing to 6300#, with no signs of any open perf's. Bled pressure down to 0 psi. shut in and secured frac tree. Waiting on coil tbq crew.  |  |
| 11:00      | 13.00    | 00:00    | LOCL | Lock Wellhead & Secure | Waiting on coil crew.   |  |
| 00:00      | 5.50     | 05:30    | SRIG | Rig Up/Down            | Moved in coil tbq equipment. Safety meeting with coil crew. Spotted in coil equipment, made up coil connector, fill coil reel with 3% kcl, pull tested connector to 25k Hydraulic disconnect, 2.875" motor & 4.75" 5-blade mill, function tested motor, Motor checked good. Made up lub and pressure tested lub and manifold to 3100 psi. open swab valves and master valve. RIH @ 80' fpm and P/up pump rate to 1.0 bpm with 500 scfm of N2 per/min, Report carrying over from 06:00 |  |
| 05:30      | 0.50     | 06:00    | TRIP | Tripping               | RIH with coil tbq and drill out BHA, pumping at a rate of 1.5" bpm, running 115' fpm.   |  |

**#7-16-36 BTR 8/13/2011 06:00 - 8/14/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |          |                                 |  |
|------------|----------|----------|------|----------|---------------------------------|--|
| Start Time | Dur (hr) | End Time | Code | Category | Com                             |  |
| 06:00      | 1.50     | 07:30    | TRIP | Tripping | Conituned to RIH with coil tbq. |  |

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category        | Com  |
|------------|----------|----------|------|-----------------|--|
| 07:30      | 1.00     | 08:30    | DOPG | Drill Out Plugs | Tagged sand top @ 9215' increase pump rate from 1.5 bpm to 1.75 bpm with 500 scfm of N2, Drilled out from 9215' to 9721'. Tagged CBP @ 9721'. Drilled out CBP @ 9721'.   |
| 08:30      | 0.50     | 09:00    | CLN  | Clean Out Hole  | Push remaining plug parts down to the next CBP @ 9938'. Pumped 20 bbl gel sweep. Pulled up to 9500', Pumped bottoms up. @ 9500'.   |
| 09:00      | 1.50     | 10:30    | CLN  | Clean Out Hole  | Circulated Bottoms up @ 2 bpm with 500 scfm of N2.   |
| 10:30      | 1.00     | 11:30    | TRIP | Tripping        | Trip Out Of Hole With Coil And BHA, Continue Circulating With Water And N2   |
| 11:30      | 3.00     | 14:30    | SRIG | Rig Up/Down     | WSI And Secured, Blow Down Reel With N2, RD Coil Equipment And Iron. Pump 230 Bbl. Flush At 5 Bpm And 1000 Psi.  |
| 14:30      | 1.35     | 15:51    | CTUW | W/L Operation   | MIRU SLB W/L Crew/Equipment. Hold Safety Meeting. W/L P/U Lubricator And Well Control, NU To Well, P/T Lubr. To 4500#'s, Good Test, Arm Gun, NU Baker 20 And HES FAS Drill CBP, Hook Up To Well And Equalize.  |
| 15:51      | 1.35     | 17:12    | PFRT | Perforating     | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 8390 - 8428' And 8471 - 8512'. Drop Down To Depth, Set CBP At 7500', Pull Up And Shoot Stage 7 CR-3/CR-2 Zone As Follows; 9308 - 9309, 9323 - 9324, 9339 - 9340, 9355 - 9356, 9375 - 9376, 9385 - 9386, 9405 - 9406, 9413 - 9414, 9421 - 9422, 9449 - 9451, 9463 - 9464, 9474 - 9475. 39 Holes. POOH, Well On Suck. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured. |
| 17:12      | 0.50     | 17:42    | CTUW | W/L Operation   | W/L Breakdown Gun And Secure Equipment.  |
| 17:42      | 12.30    | 06:00    | DTIM | Downtime        | WSI And Secured, SDFD  |

**#7-16-36 BTR 8/14/2011 06:00 - 8/15/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
|------------|----------|----------|------|--------------------|--|
| 06:00      | 1.75     | 07:45    | GOP  | General Operations | HES Start Arriving On Location At 0530 Hrs., Rig Back Up To Well, Spot In 3 Pumps. Prime Up Chemicals And HHP, Pressure Test Iron To 8500#'s, Hold Safety Meeting. 15 HES, 2 Delsco, 1 BBC. Delayed 45 Min. On Scheduled Start Time Due To Getting Gel Weighted Up. Sat For Three Days.  |
| 07:45      | 1.43     | 09:10    | FRAC | Frac. Job          | Stage 7 CR-3/CR-2 Frac. Open Well, 380 Psi ICP, Pump Produced Water, Achieved BreakDown At 9.7 Bpm And 3287 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbls. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall. Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 70.5 Bpm And Pressure 4716 Psi., Isip 2696 Psi., .727 F.G., 39/39 Holes Open. Pumped 5 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, 2.5#, 3# 20/40 CRC, 150#'s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 22# ) Throughout. Flush With Produced Water 15 Bbls. Over Bottom Perf Volume. Pumped 72,531 Gals. 3% KCL, 66,804 Gals. Produced Water, 17,900#'s 100 Mesh And 124,000#'s 20/40 CRC Sand. Total Load To Recover 3966 Bbls.. ISDP 3179 Psi., .778 F.G., Max Rate 72.9 Bpm Max Pressure 4901 Psi. Avg Rate 68.4 Bpm Avg. Pressure 4441 Psi. WSI And Secured, Turn Over To W/L. |
| 09:10      | 0.25     | 09:25    | CTUW | W/L Operation      | W/L Arm Gun, P/U Gun, Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure   |
| 09:25      | 1.33     | 10:45    | PFRT | Perforating        | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 8390 - 8428' And 8471 - 8512'. Drop Down To Depth, Set CBP At 9297', Pull Up And Shoot Stage 8 CR-2 Zone As Follows; 9111 - 9112, 9127 - 9128, 9134 - 9135, 9142 - 9143, 9155 - 9156, 9173 - 9174, 9185 - 9186, 9201 - 9202, 9217 - 9218, 9225 - 9226, 9249 - 9250, 9259 - 9260, 9279 - 9280. 39 Holes. POOH, Well On Suck. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.   |
| 10:45      | 0.17     | 10:55    | GOP  | General Operations | Turn Well Over To HES, Pressure Test To 8500#, Equalize To Open Well   |



| Time Log   |          |          |      |               |   |
|------------|----------|----------|------|---------------|---|
| Start Time | Dur (hr) | End Time | Code | Category      | Com   |
| 10:55      | 1.50     | 12:25    | FRAC | Frac. Job     | Stage 8 CR-2 Frac. Open Well, 1830 Psi ICP, Pump Produced Water, Achieved BreakDown At 11.2 Bpm And 2604 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbls. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall. Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 70.8 Bpm And Pressure 4730 Psi., Isip 2584 Psi., .721 F.G., 39/39 Holes Open. Pumped 6 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, 2.5#, 3#, And 3.5# 20/40 CRC, 150#'s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 22# ) Throughout. Flush With Produced Water 15 Bbls. Over Bottom Perf Volume. Pumped 79,599 Gals. 3% KCL, 70,036 Gals. Produced Water, 20,200#'s 100 Mesh And 142,100#'s 20/40 CRC Sand. Total Load To Recover 3786 Bbls.. ISDP 3040 Psi., .771 F.G., Max Rate 73.7 Bpm Max Pressure 4731 Psi. Avg Rate 68.3 Bpm Avg. Pressure 4236 Psi. WSI And Secured, Turn Over To W/L. |
| 12:25      | 0.25     | 12:40    | CTUW | W/L Operation | W/L Arm Gun, P/U Gun, Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure  |
| 12:40      | 3.32     | 16:00    | PFRT | Perforating   | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 8390 - 8428' And 8471 - 8512'. Drop Down To Depth, Set CBP At 9096', Pull Up And Shoot Stage 9 CR-2/Wasatch Zone As Follows; 8863 - 8864, 8875 - 8876, 8895 - 8896, 8911 - 8912, 8923 - 8924, 8947 - 8948, 8959 - 8960, 8979 - 8980, 9007 - 9008, 9015 - 9016, 9032 - 9033, 9061 - 9062, 9075 - 9076. 39 Holes. POOH, Well On Suck. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured. Had A Misrun, Set Plug And Shot 5 Guns On First Run, Lost Comm. With Swithes, POOH, Found Bad Switch, Swap Out, RBIH, Finish Shooting Zone.  |
| 16:00      | 1.00     | 17:00    | CTUW | W/L Operation | W/L ShutDown Equipment And Secure.  |
| 17:00      | 13.00    | 06:00    | DTIM | Downtime      | WSI And Secured, SDFD   |

**#7-16-36 BTR 8/15/2011 06:00 - 8/16/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                    |   |
|------------|----------|----------|------|--------------------|---|
| Start Time | Dur (hr) | End Time | Code | Category           | Com   |
| 06:00      | 0.34     | 06:20    | GOP  | General Operations | HES Start Arriving On Location At 0530 Hrs., Prime Up Chemicals And HHP, Pressure Test Iron To 8500#'s, Hold Safety Meeting. 19 HES, 2 Delsco, 1 BBC.   |
| 06:20      | 1.59     | 07:55    | FRAC | Frac. Job          | Stage 9 CR-2 Frac. Open Well, 3000 Psi ICP, Pump Produced Water, Achieved BreakDown At 10.3 Bpm And 3080 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbls. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall. Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 71.2 Bpm And Pressure 4549 Psi., Isip 2666 Psi., .737 F.G., 39/39 Holes Open. Pumped 6 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, 2.5#, 3#, And 3.5# 20/40 CRC, 150#'s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 22# ) Throughout. Flush With Produced Water 15 Bbls. Over Bottom Perf Volume. Pumped 82,194 Gals. 3% KCL, 71,955 Gals. Produced Water, 21,000#'s 100 Mesh And 146,600#'s 20/40 CRC Sand. Total Load To Recover 3878 Bbls.. ISDP 3077 Psi., .783 F.G., Max Rate 72.5 Bpm Max Pressure 7036 Psi. Avg Rate 67.9 Bpm Avg. Pressure 4338 Psi. WSI And Secured, Turn Over To W/L. |
| 07:55      | 0.25     | 08:10    | CTUW | W/L Operation      | W/L Arm Gun, P/U Gun, Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure  |
| 08:10      | 1.33     | 09:30    | PFRT | Perforating        | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 8390 - 8428' And 8471 - 8512'. Drop Down To Depth, Set CBP At 8850', Pull Up And Shoot Stage 10 CR-1 Zone As Follows; 8605 - 8606, 8616 - 8617, 8639 - 8640, 8650 - 8651, 8667 - 8668, 8682 - 8683, 8692 - 8693, 8723 - 8724, 8739 - 8740, 8776 - 8777, 8801 - 8802, 8817 - 8818, 8831 - 8832. 39 Holes. POOH, Well On Suck. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.   |
| 09:30      | 0.16     | 09:40    | GOP  | General Operations | Turn Well Over To HES, Pressure Test To 8500#, Equalize To Open Well  |





| Time Log   |          |          |      |                    |   |
|------------|----------|----------|------|--------------------|---|
| Start Time | Dur (hr) | End Time | Code | Category           | Com   |
| 09:40      | 1.25     | 10:55    | FRAC | Frac. Job          | Stage 10 CR-1 Frac. Open Well, 1620 Psi ICP, Pump Produced Water, Achieved BreakDown At 9.5 Bpm And 2804 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbbs. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall. Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 71.7 Bpm And Pressure 4549 Psi., Isip 1721 Psi., .637 F.G., 39/39 Holes Open. Pumped 6 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, 3#, And 3.5# 20/40 CRC, 150#'s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 20# ) Throughout. Flush With Produced Water 15 Bbbs. Over Bottom Perf Volume. Pumped 60,401 Gals. 3% KCL, 63,558 Gals. Produced Water, 16,600#'s 100 Mesh And 104,000#'s 20/40 CRC Sand( Design Called For 4#, Stayed On 3.5#, Cut Sand Early Due To Increasing Net Indicating A Screenout. Total Sand Pumped 81% Of Design ). Total Load To Recover 3124 Bbbs.. ISDP 2371 Psi., .712 F.G., Max Rate 73.7 Bpm Max Pressure 6433 Psi. Avg Rate 69.3 Bpm Avg. Pressure 3588 Psi. WSI And Secured, Turn Over To W/L. |
| 10:55      | 0.25     | 11:10    | CTUW | W/L Operation      | W/L Arm Gun, P/U Gun, Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure  |
| 11:10      | 1.33     | 12:30    | PFRT | Perforating        | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 8390 - 8428' And 8471 - 8512'. Drop Down To Depth, Set CBP At 8590', Pull Up And Shoot Stage 11 CR-1/UteLand Butte/Castle Peak Zone As Follows; 8367 - 8368, 8379 - 8380, 8390 - 8391, 8403 - 8404, 8454 - 8455, 8466 - 8467, 8473 - 8474, 8485 - 8486, 8495 - 8496, 8517 - 8518, 8526 - 8527, 8541 - 8542, 8573 - 8574. 39 Holes. POOH, Well On Suck. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.   |
| 12:30      | 1.00     | 13:30    | GOP  | General Operations | W/L ShutDown And Secure Equipment   |
| 13:30      | 16.50    | 06:00    | DTIM | Downtime           | WSI And Secured, SDFD.  |

**#7-16-36 BTR 8/16/2011 06:00 - 8/17/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                    |   |
|------------|----------|----------|------|--------------------|---|
| Start Time | Dur (hr) | End Time | Code | Category           | Com   |
| 06:00      | 0.67     | 06:40    | GOP  | General Operations | HES Start Arriving On Location At 0530 Hrs., Prime Up Chemicals And HHP, Pressure Test Iron To 8500#'s, Hold Safety Meeting. 21 HES, 2 Delsco, 1 BBC.   |
| 06:40      | 1.50     | 08:10    | FRAC | Frac. Job          | Stage 11 CR-1/UteLand Butte/Castle Peak Frac. Open Well, 380 Psi ICP, Pump Produced Water, Achieved BreakDown At 20.2 Bpm And 3024 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbbs. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall( Well Went On Suck During 15 Min.). Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 71.5 Bpm And Pressure 3722 Psi., Isip 1672 Psi., .637 F.G., 39/39 Holes Open. Pumped 4 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, And 3#, 20/40 CRC( Extended 1# And 2# Stages 61% Over Design, 3# 127%, Did Not Pump 3.5# Or 4# As Called For On Design. Total Sand Volume Pumped, Accounts For 89% Of Design ), 150#'s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 20# ) Throughout. Flush With Produced Water 15 Bbbs. Over Bottom Perf Volume. Pumped 71,082 Gals. 3% KCL, 67,931 Gals. Produced Water, 17,200#'s 100 Mesh And 114,700#'s 20/40 CRC Sand.Total Load To Recover 3496 Bbbs.. ISDP 2166 Psi., .696 F.G., Max Rate 74.0 Bpm Max Pressure 3772 Psi. Avg Rate 69.1 Bpm Avg. Pressure 3381 Psi. WSI And Secured, Turn Over To W/L. |
| 08:10      | 0.25     | 08:25    | CTUW | W/L Operation      | W/L Arm Gun, P/U Gun, Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure  |
| 08:25      | 1.34     | 09:45    | PFRT | Perforating        | RIH With 3 1/8" PJ Omega Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 4555 - 4595' And 5839 - 5893'. Drop Down To Depth, Set CBP At 8354', Pull Up And Shoot Stage 11 Castle Peak Zone As Follows; 8073 - 8074, 8083 - 8084, 8092 - 8093, 8153 - 8154, 8165 - 8166, 8185 - 8186, 8219 - 8220, 8239 - 8240, 8257 - 8258, 8273 - 8274, 8287 - 8288, 8319 - 8320, 8339 - 8340. 39 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.  |
| 09:45      | 0.08     | 09:50    | GOP  | General Operations | Turn Well Over To HES, Pressure Test To 8500#, Equalize To Open Well  |





| Time Log   |          |          |      |                    |  |
|------------|----------|----------|------|--------------------|--|
| Start Time | Dur (hr) | End Time | Code | Category           | Com  |
| 09:50      | 1.42     | 11:15    | FRAC | Frac. Job          | Stage 12 CastlePeak Frac. Open Well, 960 Psi ICP, Pump Produced Water, Achieved BreakDown At 9.4 Bpm And 2074 Psi, Pumped 3900 Gals. 15% HCL While Dropping 78 Bio Balls. Flush Balls Away With Produced Water To 10 Bbbls. Over Bottom Perf. Volume, Saw Good Ball Action, S/D For 15 Min. After Surging Three Times To Let Balls Fall. Pumped Produced Water Pad, S/D For ISIP After Stabilized Rate Of 71.6 Bpm And Pressure 3732 Psi., Isip 1706 Psi., .647 F.G., 39/39 Holes Open. Pumped 5 XL Stages With Hybor G 20 Fluid, 1# 100 Mesh, 1#, 2#, 3#, And 3.5# 20/40 CRC( Extended 1# And 2# Stages 61% Over Design, 3# 76%, Did Not Pump 4# As Called For On Design. Total Sand Volume Pumped, Accounts For 100% Of Design ), 150#s Scale Inhibitor Pumped In Acid Flush And FR Pad Stage, SawGood XL( Maintained 20# ) Throughout. Flush With Produced Water 15 Bbbls. Over Bottom Perf Volume. Pumped 76,703 Gals. 3% KCL, 62,612 Gals. Produced Water, 14,900#s 100 Mesh And 136,500#s 20/40 CRC Sand.Total Load To Recover 3530 Bbbls.. ISDP 2270 Psi., .717 F.G., Max Rate 72.6 Bpm Max Pressure 3732 Psi. Avg Rate 68.0 Bpm Avg. Pressure 3357 Psi. WSI And Secured, Turn Over To W/L. |
| 11:15      | 0.25     | 11:30    | CTUW | W/L Operation      | W/L P/U Baker 20 Setting Tool And HES FAS Drill CBP. NU To Well, Equalize To Well Pressure   |
| 11:30      | 1.15     | 12:39    | PFRT | Perforating        | RIH With 3 1/8" CCL,Baker 20, And HES FAS Drill CBP, Correlating To HES DSN/SD 07-17-2011 And SLB CBL/CCL 07-26-2011, Found And Correlated To Marker Joints At 4555 - 4595' And 5839 - 5893'. Drop Down To Depth, Set CBP At 8030'   |
| 12:39      | 3.35     | 16:00    | GOP  | General Operations | HES And SLB RD MOL, R/D Fill Manifold On Tanks, Bottom Out Tanks, Fill 2 Tanks With Fresh For W/O Rig.   |
| 16:00      | 14.00    | 06:00    | DTIM | Downtime           | WSI And Secured, SDFD.   |

**#7-16-36 BTR 8/17/2011 06:00 - 8/18/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                        |   |
|------------|----------|----------|------|------------------------|---|
| Start Time | Dur (hr) | End Time | Code | Category               | Com   |
| 06:00      | 5.00     | 11:00    | SRIG | Rig Up/Down            | Moved in rig equipment.<br>Safety meeting with contact crews.<br>Started moving frac tanks off location.<br>Set pipe handler and pipe racks.<br>R/U Nabors Well servicing unit.<br>Off loaded 119 jts 2 7/8" 6.5# L-80.<br>R/U Flow back lines to flow back tanks.  |
| 11:00      | 2.00     | 13:00    | GOP  | General Operations     | Check pressures on wellhead 0 psi.<br>N/D 5 1/8" 10k frac tree.<br>N/U bop stack.<br>R/U Rig Floor and tbq handling equipment.<br>Tally 119 Jts of 2 7/8" tbq.<br>P/up 1- 4 5/8' Chomp Mill.<br>1-2 7/8" single valve pump off bit sub.<br>1- jt of 2 7/8" 6.5# I-80.<br>1- jt of 2 7/8" XN- Profile nipple.<br>1-jt of 2 7/8" 6.5<br>1- X- profile nipple.<br>119 Jts of 2 7/8" tbq. |
| 13:00      | 5.50     | 18:30    | TRIP | Tripping               | Second load of tbq arrived on location.<br>Off loaded 227 jts of tbq.<br>Tally tbq.<br>RIH with other 129 jts of 2 7/8" tbq.<br>Stopped EOT @ 7881' for the night with a total of 248 jts in the hole.<br>EOT Currently 149' from kill plug,  |
| 18:30      | 11.50    | 06:00    | LOCL | Lock Wellhead & Secure | Secured bop and well head. Shut in well for the night.  |

**#7-16-36 BTR 8/18/2011 06:00 - 8/19/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

| Time Log   |          |          |      |                        |  |
|------------|----------|----------|------|------------------------|--|
| Start Time | Dur (hr) | End Time | Code | Category               | Com  |
| 06:00      | 0.50     | 06:30    | LOCL | Lock Wellhead & Secure | Well shut in and secured, waiting on rig crew.   |
| 06:30      | 1.00     | 07:30    | TRIP | Tripping               | Safety meeting with rig crew, reviewed JSA with rig crew and flow back hands. Serviced rig equipment check, fuel level in rig pump and power swivel. Check pressures at the well head. 0 psi, opened pipe rams. RIH with 7 jts of 2 7/8" tagged kill plug @ 8030'. |

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category               | Com   |
|------------|----------|----------|------|------------------------|---|
| 07:30      | 8.00     | 15:30    | DOPG | Drill Out Plugs        | R/U power swivel, establish circulation with rig pump, Drilled out kill plug @ 8030'. Wash down to CBP @ 8354', Drilled out plug, Wash out sand from 8467' to CBP @ 8590', Drilled out CBP, wash down to 8704' lost fluid returns. Place dart valve in drill out sting. Establish rate with N2 unit. Pumping @ 800 scfm +1.5 bpm fluid rate. Establish fluid return to surface, continued to wash sand from 8704' to 8850', Drilled out CBP @ 8850', RIH to 9096' Drilled out CBP @ 9096, wash down to 9116'. |
| 15:30      | 1.00     | 16:30    | CLN  | Clean Out Hole         | Circulated bottoms up. Shut down pumps,   |
| 16:30      | 1.00     | 17:30    | TRIP | Tripping               | POOH with 25 jts  |
| 17:30      | 12.50    | 06:00    | LOCL | Lock Wellhead & Secure | Shut in BOP's & Secured well head for the night, Shut down @ 17:00 hours due to Nabors well services safety meeting in Roosevelt yard.  |

**#7-16-36 BTR 8/19/2011 06:00 - 8/20/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category               | Com  |
|------------|----------|----------|------|------------------------|--|
| 06:00      | 0.50     | 06:30    | LOCL | Lock Wellhead & Secure | Well shut in with 1250# on the casing. 0 psi on the tbq.   |
| 06:30      | 1.00     | 07:30    | GOP  | General Operations     | Safety meeting with rig crew and flow back crew.<br>Open well on 24/64" bled off pressure to 500#.<br>Equalized pressure between the bag and pipe rams. Opened pipe rams.  |
| 07:30      | 0.50     | 08:00    | TRIP | Tripping               | TIH with 27 jts of 2 7/8" tag fill @ 9180'<br>R/U power swivel, attempted to break circulation with 3% kcl @ 2.5 bpm with rig pump.  |
| 08:00      | 13.00    | 21:00    | DOPG | Drill Out Plugs        | Started pump rate @ 2.5 bpm, pumped over 160 bbls of 3 % KCL, was unable to break circulation.<br>Installed dart valve, reduce pump rate to 1 bpm and started pumping N2 unit @ 800 scfm.<br>Seen good returns to surface, drilled out sand & plugs from 9180' to 10,825'.<br>Drilled out frac plugs and wash out sand as listed.<br>CBP @ 9297', washed out 98' sand.<br>CBP @ 9500', washed out 157' sand.<br>CBP @ 9938', washed out 79' sand.<br>CBP @ 10,145' washed out 109' sand.<br>CBP @ 10,365', washed out 127' sand.<br>CBP @ 10,605' washed down to FC @ 10,,750',<br>Drilled through float collar @ 10,750'.<br>Bottom Perf @ 10764'.<br>Drilled out 61' of rate hole. |
| 21:00      | 1.00     | 22:00    | CLN  | Clean Out Hole         | Circulated hole with N2 and 1 bpm pump rate. Kick out N2, increase pump rate to 2 .5 bpm. pumped over 61 bbls down the tbq killed tbq, still maintaining good fluid returned on surface.   |
| 22:00      | 1.00     | 23:00    | TRIP | Tripping               | Rigged down power swivel, R/up tbq tongs, tripped out of the hole with 40 stands of 2 7/8". Still maintaining 2 bbls minute in fluid returns on surface.   |
| 23:00      | 1.00     | 00:00    | FBCK | Flowback Well          | Continued to flow well back. Shut in well @ midnight. Total bbls recover 1680, Total bbl pumps 840 bbls.   |
| 00:00      | 6.00     | 06:00    | LOCL | Lock Wellhead & Secure | Bop's and flow back equipment secured for the night. continue to haul off flow back throughout the night.  |

**#7-16-36 BTR 8/20/2011 06:00 - 8/21/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category               | Com  |
|------------|----------|----------|------|------------------------|--|
| 06:00      | 3.00     | 09:00    | LOCL | Lock Wellhead & Secure | Well shut in with 950#, waiting on rig crew to arrive.   |
| 09:00      | 1.50     | 10:30    | GOP  | General Operations     | Open well on 24/64" choke, Bled down pressure to 200 psi well flow straight oil.<br>Safety Meeting with rig crew, reviewed JSA.<br>Started rig equipment.<br>Equalized bop pressure, opened rams.<br>RIH with 81 jts of 2 7/8" tag no fill, tagged PBTD @ 10,825'.<br>Hot oil unit showed up to start heating excess oil in flow back tanks. |
| 10:30      | 1.50     | 12:00    | TRIP | Tripping               | L/D 95 jts of 2 7/8" tbq.  |

**Time Log**

| Start Time | Dur (hr)            | End Time | Code     | Category           | Com  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|------------|---------------------|----------|----------|--------------------|--|----------|---------------------|----------|---------|------------|------------|-------|------------|-----|---|---------------|---|-------|-----|------|-----|------|----|-----|--------------|-------|-----|------|-----|----------|--|------|--|----------|--|--|--|--|--|--|--|---|----------------|---------|-------|-----|------|-----|------|----------|--|----------|--|--|--|--|--|--|--|---|--------------|-------|-----|------|-----|-------|----------|--|--|----------|--|--|--|--|--|--|--|---|----------------|----|-------|-------|-----|------|-----|------|--|----------|--|----------|--|--|--|--|--|---|--------------|-------|-----|------|-----|-------|----------|--|--|----------|--|--|--|--|--|--|--|---|------------------|--|-------|-----|-----|------|-----|------|--|----------|--|----------|--|--|--|--|--|--|--|--|-------|--------------|---------|--|--|--|--|----------|--|----------|--|--|--|--|--|
| 12:00      | 0.50                | 12:30    | GOP      | General Operations | Made up tbg hanger, flushed bop stack and well with 5 bbls of 3% kcl. landed tbg as listed below.<br><table><tr><th>Jts (ft)</th><th>Item Des Top (ftKB)</th><th>OD (in)</th><th>ID (in)</th><th>Btm (ftKB)</th><th>Wt (lb/ft)</th><th>Grade</th><th>Top Thread</th><th>Len</th></tr><tr><td>1</td><td>Tubing Hanger</td><td>7</td><td>2.441</td><td>6.5</td><td>L-80</td><td>8rd</td><td>0.44</td><td>24</td></tr><tr><td>252</td><td>Tubing 2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>8rd</td><td>7,926.00</td><td></td><td>25.5</td></tr><tr><td></td><td>7,951.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Profile Nipple</td><td>X 2 7/8</td><td>2.313</td><td>6.5</td><td>L-80</td><td>8rd</td><td>1.09</td><td>7,951.50</td></tr><tr><td></td><td>7,952.60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing 2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>8rd</td><td>31.82</td><td>7,952.60</td><td></td></tr><tr><td></td><td>7,984.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Profile Nipple</td><td>XN</td><td>2 7/8</td><td>2.205</td><td>6.5</td><td>L-80</td><td>8rd</td><td>0.88</td></tr><tr><td></td><td>7,984.40</td><td></td><td>7,985.30</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing 2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>8rd</td><td>31.78</td><td>7,985.30</td><td></td></tr><tr><td></td><td>8,017.10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Pump Off Bit Sub</td><td></td><td>3 1/8</td><td>2.5</td><td>6.5</td><td>L-80</td><td>8rd</td><td>0.95</td></tr><tr><td></td><td>8,017.10</td><td></td><td>8,018.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>3 1/8</td><td>Landed EOT @</td><td>8018.00</td><td></td><td></td><td></td></tr><tr><td></td><td>8,018.00</td><td></td><td>8,018.00</td><td></td><td></td><td></td><td></td><td></td></tr></table> | Jts (ft) | Item Des Top (ftKB) | OD (in)  | ID (in) | Btm (ftKB) | Wt (lb/ft) | Grade | Top Thread | Len | 1 | Tubing Hanger | 7 | 2.441 | 6.5 | L-80 | 8rd | 0.44 | 24 | 252 | Tubing 2 7/8 | 2.441 | 6.5 | L-80 | 8rd | 7,926.00 |  | 25.5 |  | 7,951.50 |  |  |  |  |  |  |  | 1 | Profile Nipple | X 2 7/8 | 2.313 | 6.5 | L-80 | 8rd | 1.09 | 7,951.50 |  | 7,952.60 |  |  |  |  |  |  |  | 1 | Tubing 2 7/8 | 2.441 | 6.5 | L-80 | 8rd | 31.82 | 7,952.60 |  |  | 7,984.40 |  |  |  |  |  |  |  | 1 | Profile Nipple | XN | 2 7/8 | 2.205 | 6.5 | L-80 | 8rd | 0.88 |  | 7,984.40 |  | 7,985.30 |  |  |  |  |  | 1 | Tubing 2 7/8 | 2.441 | 6.5 | L-80 | 8rd | 31.78 | 7,985.30 |  |  | 8,017.10 |  |  |  |  |  |  |  | 1 | Pump Off Bit Sub |  | 3 1/8 | 2.5 | 6.5 | L-80 | 8rd | 0.95 |  | 8,017.10 |  | 8,018.00 |  |  |  |  |  |  |  |  | 3 1/8 | Landed EOT @ | 8018.00 |  |  |  |  | 8,018.00 |  | 8,018.00 |  |  |  |  |  |
| Jts (ft)   | Item Des Top (ftKB) | OD (in)  | ID (in)  | Btm (ftKB)         | Wt (lb/ft)   | Grade    | Top Thread          | Len      |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Tubing Hanger       | 7        | 2.441    | 6.5                | L-80   | 8rd      | 0.44                | 24       |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 252        | Tubing 2 7/8        | 2.441    | 6.5      | L-80               | 8rd  | 7,926.00 |                     | 25.5     |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 7,951.50            |          |          |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Profile Nipple      | X 2 7/8  | 2.313    | 6.5                | L-80   | 8rd      | 1.09                | 7,951.50 |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 7,952.60            |          |          |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Tubing 2 7/8        | 2.441    | 6.5      | L-80               | 8rd  | 31.82    | 7,952.60            |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 7,984.40            |          |          |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Profile Nipple      | XN       | 2 7/8    | 2.205              | 6.5  | L-80     | 8rd                 | 0.88     |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 7,984.40            |          | 7,985.30 |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Tubing 2 7/8        | 2.441    | 6.5      | L-80               | 8rd  | 31.78    | 7,985.30            |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 8,017.10            |          |          |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 1          | Pump Off Bit Sub    |          | 3 1/8    | 2.5                | 6.5  | L-80     | 8rd                 | 0.95     |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 8,017.10            |          | 8,018.00 |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            |                     |          | 3 1/8    | Landed EOT @       | 8018.00  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
|            | 8,018.00            |          | 8,018.00 |                    |  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 12:30      | 1.00                | 13:30    | SRIG     | Rig Up/Down        | Rack out tbg equipment, R/D rig floor, N/D bop's, N/U well head and flow lines to sand trap.   |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 13:30      | 0.50                | 14:00    | GOP      | General Operations | Pumped a 10 bbl water cushion, dropped disconnect ball, pumped 40 bbls of 3 % kcl, seen increase in tbg pressure, increase pressure to 2000 psi, seen bit and bit sub disconnect, tbg went on a vacuum, pumped 10 bbls over tbg displacement. Shut down pumps.   |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 14:00      | 1.00                | 15:00    | SRIG     | Rig Up/Down        | R/D Nabors Well Servicing unit.  |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 15:00      | 1.00                | 16:00    | CTUW     | W/L Operation      | Rigged up Delsco Slick line unit. RIH with 1 -1/8" weight bars and spangs. Tag PBTD @ 10,900' by slick line measurements. POOH with S/L, R/D S/L unit.   |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |
| 16:00      | 14.00               | 06:00    | FBCK     | Flowback Well      | Cleared and Cleaned location, Turned well over to Triple-E flow tester for first delivery.   |          |                     |          |         |            |            |       |            |     |   |               |   |       |     |      |     |      |    |     |              |       |     |      |     |          |  |      |  |          |  |  |  |  |  |  |  |   |                |         |       |     |      |     |      |          |  |          |  |  |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                |    |       |       |     |      |     |      |  |          |  |          |  |  |  |  |  |   |              |       |     |      |     |       |          |  |  |          |  |  |  |  |  |  |  |   |                  |  |       |     |     |      |     |      |  |          |  |          |  |  |  |  |  |  |  |  |       |              |         |  |  |  |  |          |  |          |  |  |  |  |  |

**#7-16-36 BTR 8/21/2011 06:00 - 8/22/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category      | Com   |
|------------|----------|----------|------|---------------|---|
| 06:00      | 24.00    | 06:00    | FBCK | Flowback Well | Moved Nabors rig 1431 off of location to the Four Star 7-32. Well still not flowing to sales, 850 psi on the casing and 200 psi on the tbg. |

**#7-16-36 BTR 8/25/2011 06:00 - 8/26/2011 06:00**

|                         |                      |                    |                                |                        |                                |  |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|
| API/UWI<br>43-013-34133 | State/Province<br>UT | County<br>DUCHESNE | Field Name<br>Black Tail Ridge | Well Status<br>Concept | Total Depth (ftKB)<br>10,950.0 | Primary Job Type<br>Initial Completion |
|-------------------------|----------------------|--------------------|--------------------------------|------------------------|--------------------------------|--|

**Time Log**

| Start Time | Dur (hr) | End Time | Code | Category      | Com  |
|------------|----------|----------|------|---------------|--|
| 06:00      | 2.00     | 08:00    | FBCK | Flowback Well | Well was open to sales, on a 24/64 with 400 psi on the tbg and 820 psi on the casing.  |
| 08:00      | 4.50     | 12:30    | LOGG | Logging       | <p>Safety meeting with E-line crew. MIRU SLB wireline equipment. RIH with SLB production log, completed dummy run, Well was flowing 6 bbls of oil an hour, Tagged PBTD @ 10,822' with dummy run, RIH with production logging tool, made one log pass from 10,810' to 8070' @ 150' fpm, well stopped flowing. Call Denver, decision was made to shut down logging ops. Pulled logging tools out of the hole, rigged down SLB, Casing pressure 825 psi, Tbg Pressure, 50 psi, Choke size 24/64" Oil Per hour 6 bbls, Water 1 bbls. Gas. 2 mcf.</p> |

**Bill Barrett Corporation****Time Log**

| Start Time | Dur (hr) | End Time | Code | Category      | Com  |
|------------|----------|----------|------|---------------|--|
| 12:30      | 2.00     | 14:30    | SRIG | Rig Up/Down   | Had flow back crew rigged sand trap and hot oiler heat remaining oil in flow back tanks. Skimmed oil out of flow back tanks. Turned well over to Triple -E flow testers. Attempt to flow back the well throughout the night. |
| 14:30      | 15.50    | 06:00    | FBCK | Flowback Well | Secured location and attempting to flow well back to sales.  |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|  |                      |   |                     |   |                        |  |                       |                   |                   |
|--|----------------------|---|---------------------|---|------------------------|--|-----------------------|-------------------|-------------------|
| 1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other  |                      |   |                     |   |                        | 5. Lease Serial No.<br>1420H626263   |                       |                   |                   |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____    |                      |   |                     |   |                        | 6. If Indian, Allottee or Tribe Name   |                       |                   |                   |
| 2. Name of Operator<br>BILL BARRETT CORPORATION Contact: MEGAN FINNEGAN<br>E-Mail: mfinnegan@billbarrettcorp.com   |                      |   |                     |   |                        | 7. Unit or CA Agreement Name and No.   |                       |                   |                   |
| 3. Address 1099 18TH STREET SUITE 2300<br>DENVER, CO 80202   |                      |   |                     | 3a. Phone No. (include area code)<br>Ph: 303-299-9949   |                        | 8. Lease Name and Well No.<br>7-16-36 BTR  |                       |                   |                   |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>At surface SWNE 1679FNL 1390FEL<br>At top prod interval reported below SWNE 1711FNL 1400FEL<br>At total depth SWNE 1776FNL 1399FEL |                      |   |                     |   |                        | 9. API Well No.<br>43-013-34133  |                       |                   |                   |
| 14. Date Spudded<br>08/24/2010   |                      | 15. Date T.D. Reached<br>07/16/2011       |                     | 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>08/21/2011 |                        | 10. Field and Pool, or Exploratory<br>CEDAR RIM  |                       |                   |                   |
| 18. Total Depth: MD 10950<br>TVD 10948   |                      | 19. Plug Back T.D.: MD 10750<br>TVD 10748 |                     | 20. Depth Bridge Plug Set: MD<br>TVD  |                        | 11. Sec., T., R., M., or Block and Survey<br>or Area Sec 16 T3S R6W Mer UBM  |                       |                   |                   |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>CBL, TRIBE COMBO, BOREHOLE  |                      |   |                     |   |                        | 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) |                       |                   |                   |
| 23. Casing and Liner Record (Report all strings set in well)   |                      |   |                     |   |                        |  |                       |                   |                   |
| Hole Size  | Size/Grade           | Wt. (#/ft.)                               | Top (MD)            | Bottom (MD)   | Stage Cementer Depth   | No. of Sk. & Type of Cement  | Slurry Vol. (BBL)     | Cement Top*       | Amount Pulled     |
| 24.000   | 16.000 COND          | 65.0                                      | 0                   | 76  | 76                     |  |                       | 0                 |                   |
| 12.250   | 9.625 J-55           | 36.0                                      | 0                   | 3004  | 3004                   | 760  | 343                   | 0                 |                   |
| 8.750  | 5.500 P-110          | 17.0                                      | 0                   | 10950   | 10840                  | 1805   | 562                   | 1324              | 15000             |
| 24. Tubing Record  |                      |   |                     |   |                        |  |                       |                   |                   |
| Size   | Depth Set (MD)       | Packer Depth (MD)                         | Size                | Depth Set (MD)  | Packer Depth (MD)      | Size   | Depth Set (MD)        | Packer Depth (MD) |                   |
| 2.375  | 8070                 |   |                     |   |                        |  |                       |                   |                   |
| 25. Producing Intervals  |                      |   |                     |   | 26. Perforation Record |  |                       |                   |                   |
| Formation  | Top                  | Bottom                                    | Perforated Interval |   | Size                   | No. Holes  | Perf. Status          |                   |                   |
| A) GREEN RIVER   | 8073                 | 8832                                      | 8073 TO 8832        |   | 0.440                  | 117  | OPEN                  |                   |                   |
| B) WASATCH   | 8863                 | 10764                                     | 8863 TO 10764       |   | 0.440                  | 351  | OPEN                  |                   |                   |
| C)   |                      |   |                     |   |                        |  |                       |                   |                   |
| D)   |                      |   |                     |   |                        |  |                       |                   |                   |
| 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.  |                      |   |                     |   |                        |  |                       |                   |                   |
| Depth Interval   |                      | Amount and Type of Material               |                     |   |                        |  |                       |                   |                   |
| 8073 TO 8832   |                      | GREEN RIVER: SEE TREATMENT STAGES 10 - 12 |                     |   |                        |  |                       |                   |                   |
| 8863 TO 10764  |                      | WASATCH: SEE TREATMENT STAGES 1 - 9       |                     |   |                        |  |                       |                   |                   |
| 28. Production - Interval A  |                      |   |                     |   |                        |  |                       |                   |                   |
| Date First Produced  | Test Date            | Hours Tested                              | Test Production     | Oil BBL   | Gas MCF                | Water BBL  | Oil Gravity Corr. API | Gas Gravity       | Production Method |
| 08/21/2011   | 08/22/2011           | 24  | →                   | 506.0   | 261.0                  | 478.0  | 52.0                  |                   | FLOWS FROM WELL   |
| Choke Size   | Tbg. Press. Flwg. SI | Csg. Press. SI                            | 24 Hr. Rate         | Oil BBL   | Gas MCF                | Water BBL  | Gas:Oil Ratio         | Well Status       |                   |
| 28/64  | 188                  | 800.0                                     | →                   | 506   | 261                    | 478  | 516                   | PGW               |                   |
| 28a. Production - Interval B   |                      |   |                     |   |                        |  |                       |                   |                   |
| Date First Produced  | Test Date            | Hours Tested                              | Test Production     | Oil BBL   | Gas MCF                | Water BBL  | Oil Gravity Corr. API | Gas Gravity       | Production Method |
|  |                      |   | →                   |   |                        |  |                       |                   |                   |
| Choke Size   | Tbg. Press. Flwg. SI | Csg. Press. SI                            | 24 Hr. Rate         | Oil BBL   | Gas MCF                | Water BBL  | Gas:Oil Ratio         | Well Status       |                   |
|  |                      |   | →                   |   |                        |  |                       |                   |                   |

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(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #118233 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

**28b. Production - Interval C**

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

**28c. Production - Interval D**

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

**29. Disposition of Gas (Sold, used for fuel, vented, etc.)**

**SOLD**

**30. Summary of Porous Zones (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**31. Formation (Log) Markers**

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name          | Top Meas. Depth |
|-----------|-----|--------|------------------------------|---------------|-----------------|
|           |     |        |                              | GREEN RIVER   | 4272            |
|           |     |        |                              | MAHOGANY      | 5037            |
|           |     |        |                              | TGR3          | 6487            |
|           |     |        |                              | DOUGLAS CREEK | 7310            |
|           |     |        |                              | BLACK SHALE   | 7886            |
|           |     |        |                              | UTELAND BUTTE | 8449            |
|           |     |        |                              | WASATCH       | 8843            |
|           |     |        |                              | TD            | 10950           |

**32. Additional remarks (include plugging procedure):**

TOC was calculated by CBL. CBL mailed due to file size. First gas sales was on 8/21/2011. First oil sales was on 8/22/2011. Attached is Treatment Data.

**33. Circle enclosed attachments:**

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

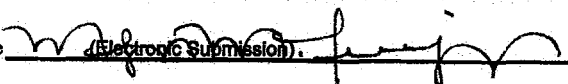
**34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):**

Electronic Submission #118233 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) MEGAN FINNEGAN

Title PERMIT ANALYST

Signature

 (Electronic Submission)

Date 09/22/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***



**7-16-36 BTR Completion Report Continued\***

| <b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b> |                           |  |                            |                                    |
|--|---------------------------|--|----------------------------|------------------------------------|
| <b>AMOUNT AND TYPE OF MATERIAL</b>                                 |                           |  |                            |                                    |
| <u><b>Stage</b></u>  | <u><b>Bbls Slurry</b></u> | <u><b>lbs 100 Mesh Common White Sand</b></u> | <u><b>lbs CRC Sand</b></u> | <u><b>lbs 20/40 White Sand</b></u> |
| 1  | 2,745                     |  | 48,300                     |                                    |
| 2  | 2,390                     |  |                            | 72,700                             |
| 3  | 3,869                     |  | 166,500                    |                                    |
| 4  | 3,462                     |  |                            | 166,200                            |
| 5  | 2,527                     |  | 31,300                     |                                    |
| 6  | 2,861                     |  | 85,300                     |                                    |
| 7  | 3,517                     | 17,900                                       | 124,000                    |                                    |
| 8  | 3,783                     | 20,200                                       | 106,600                    |                                    |
| 9  | 3,897                     | 21,000                                       | 112,300                    |                                    |
| 10   | 3,124                     |  |                            | 104,100                            |
| 11   | 3,498                     | 17,200                                       | 114,700                    |                                    |
| 12   | 3,527                     |  | 136,500                    |                                    |

\*Depth intervals for frac information same as perforation record intervals.

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**Bill Barrett Corp**  
Duchesne County, UT (NAD 1927)  
Sec. 16-T3S-R6W  
#7-16-36 BTR

**Plan A Rev 0**

**Survey: EM Surveys**

# **Sperry Drilling Services Standard Report**

**27 July, 2011**

Well Coordinates: 689,370.81 N, 2,261,599.42 E (40° 13' 20.10" N, 110° 33' 47.34" W)  
Ground Level: 6,296.00 ft

|                          |                               |
|--------------------------|-------------------------------|
| Local Coordinate Origin: | Centered on Well #7-16-36 BTR |
| Viewing Datum:           | RKB 24' @ 6320.00ft (H&P 319) |
| TVDs to System:          | N                             |
| North Reference:         | True                          |
| Unit System:             | API - US Survey Feet - Custom |

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

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**SEP 27 2011**

**DIV. OF OIL, GAS & MINING**

**HALLIBURTON**

# SPERRY-SUN DRILLING SERVICES

## CERTIFIED SURVEY WORK SHEET

|                      |                         |
|----------------------|-------------------------|
| OPERATOR:            | Bill Barrett Corp.      |
| WELL:                | 7-16-36 BTR - <i>EM</i> |
| FIELD:               | LC                      |
| RIG:                 | H&P 319                 |
| LEGALS:              | Sec. 16-T3S-R6W         |
| COUNTY:              | Duchesne                |
| STATE:               | Utah                    |
| CAL. METHOD:         | Min. Curv.              |
| MAG. DECL. APPLIED:  | 11.58°                  |
| VERTICAL SEC. DIR. : | Closure                 |

|                           |                  |
|---------------------------|------------------|
| SSDS Job Number :         | 8257188          |
| Start Date of Job :       | 7/2/2011         |
| End Date of Job :         | 7/17/2011        |
| Lead Directional Driller: | Steve Krueger    |
|                           | John Masterson   |
| Other SSDS DD's :         | Wesley Cline     |
| SSDS MWD Engineers :      | Brady Harrington |
|                           | 0                |
|                           | 0                |

Geo Pilot Engineer :

Surface Casing  
First Wireline Survey  
Last Wireline Survey

KOP Depth/Sidetrack MD  
MWD Tie-on

First MWD Survey Depth  
Last MWD Survey Depth  
Blt Extrapolation @ TD

| Main Hole > | 1st Side Track > | 2nd Side Track > | 3rd Side Track > | 4th Side Track > |
|-------------|------------------|------------------|------------------|------------------|
| 3004'       | Tie On           | Tie On           | Tie On           | Tie On           |
| SS          | MWD              |                  |                  |                  |
| SS          |                  |                  |                  |                  |
|             |                  |                  |                  |                  |
|             |                  |                  |                  |                  |
| 98'         | KOP              | KOP-ST1          | KOP-ST2          | KOP-ST3          |
|             |                  |                  |                  |                  |
|             |                  |                  |                  |                  |
| 134'        | MWD              | MWD              | MWD              | MWD              |
| 10889'      | MWD              | MWD              | MWD              | MWD              |
| 10880'      | T.D.             | T.D.             | T.D.             | T.D.             |

The following Sperry Drilling Services personnel, certify the above survey information to be accurate to the best of our knowledge:

Print Name : Steve Krueger      Print Name : John Masterson      Print Name : Wesley Cline

Sign Name : *Steve Krueger*      Sign Name :      Sign Name :

Print Name : Brady Harrington      Print Name : 0.00      Print Name : 0

Sign Name : *Brady Harrington*      Sign Name :      Sign Name :

Examples of  
Survey Types:

TieOn  
MWD  
ESS  
Gyro  
SS

Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)  
Sperry-Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's  
Sperry-Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's  
Gyro Survey's ; Provided by third party vendor, or by Sperry-Sun Drilling Services (SSDS)  
Single Shot (SS) Survey's ; Provided by Sperry-Sun Drilling Services (SSDS) or third party vendor.

## Survey Report for #7-16-36 BTR - EM Surveys

| Measured Depth (ft)                        | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|
| 0.00                                       | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  |
| <b>Tie-on</b>                              |                 |             |                     |            |            |                       |                       |
| 134.00                                     | 0.12            | 133.10      | 134.00              | -0.10      | 0.10       | 0.09                  | 0.09                  |
| <b>First Sperry MWD Survey @ 134.00 ft</b> |                 |             |                     |            |            |                       |                       |
| 200.00                                     | 0.19            | 209.23      | 200.00              | -0.24      | 0.10       | 0.23                  | 0.30                  |
| 263.00                                     | 0.32            | 216.44      | 263.00              | -0.47      | -0.06      | 0.47                  | 0.21                  |
| 325.00                                     | 0.20            | 218.03      | 325.00              | -0.70      | -0.23      | 0.71                  | 0.19                  |
| 387.00                                     | 0.17            | 359.94      | 387.00              | -0.69      | -0.29      | 0.71                  | 0.56                  |
| 449.00                                     | 0.21            | 327.21      | 449.00              | -0.50      | -0.35      | 0.53                  | 0.18                  |
| 541.00                                     | 0.36            | 291.27      | 541.00              | -0.25      | -0.71      | 0.32                  | 0.25                  |
| 626.00                                     | 0.35            | 110.09      | 626.00              | -0.25      | -0.72      | 0.31                  | 0.84                  |
| 718.00                                     | 0.62            | 119.11      | 717.99              | -0.59      | -0.02      | 0.59                  | 0.30                  |
| 810.00                                     | 0.60            | 128.21      | 809.99              | -1.13      | 0.79       | 1.05                  | 0.11                  |
| 901.00                                     | 1.00            | 144.21      | 900.98              | -2.06      | 1.63       | 1.90                  | 0.50                  |
| 995.00                                     | 0.57            | 122.96      | 994.97              | -2.98      | 2.50       | 2.73                  | 0.54                  |
| 1,089.00                                   | 0.28            | 30.30       | 1,088.97            | -3.04      | 3.01       | 2.74                  | 0.69                  |
| 1,183.00                                   | 0.79            | 343.25      | 1,182.96            | -2.22      | 2.94       | 1.93                  | 0.67                  |
| 1,277.00                                   | 0.72            | 334.10      | 1,276.96            | -1.07      | 2.50       | 0.83                  | 0.15                  |
| 1,372.00                                   | 0.61            | 349.70      | 1,371.95            | -0.04      | 2.14       | -0.17                 | 0.22                  |
| 1,466.00                                   | 0.72            | 16.13       | 1,465.94            | 1.02       | 2.22       | -1.23                 | 0.34                  |
| 1,560.00                                   | 0.81            | 20.79       | 1,559.94            | 2.21       | 2.62       | -2.45                 | 0.12                  |
| 1,654.00                                   | 0.51            | 17.39       | 1,653.93            | 3.23       | 2.98       | -3.50                 | 0.32                  |
| 1,748.00                                   | 0.52            | 46.82       | 1,747.93            | 3.92       | 3.42       | -4.23                 | 0.28                  |
| 1,843.00                                   | 0.52            | 313.24      | 1,842.92            | 4.51       | 3.42       | -4.82                 | 0.80                  |
| 1,937.00                                   | 0.47            | 316.84      | 1,936.92            | 5.09       | 2.84       | -5.34                 | 0.06                  |
| 2,031.00                                   | 1.19            | 308.96      | 2,030.91            | 5.98       | 1.82       | -6.13                 | 0.77                  |
| 2,126.00                                   | 1.21            | 302.61      | 2,125.89            | 7.14       | 0.21       | -7.13                 | 0.14                  |
| 2,220.00                                   | 1.12            | 347.37      | 2,219.87            | 8.58       | -0.83      | -8.46                 | 0.95                  |
| 2,314.00                                   | 0.80            | 337.00      | 2,313.86            | 10.08      | -1.29      | -9.91                 | 0.39                  |
| 2,408.00                                   | 0.26            | 273.82      | 2,407.85            | 10.69      | -1.76      | -10.48                | 0.77                  |
| 2,503.00                                   | 0.54            | 276.48      | 2,502.85            | 10.76      | -2.42      | -10.48                | 0.30                  |
| 2,597.00                                   | 0.65            | 217.83      | 2,596.85            | 10.39      | -3.18      | -10.04                | 0.63                  |
| 2,691.00                                   | 0.60            | 223.00      | 2,690.84            | 9.61       | -3.85      | -9.20                 | 0.08                  |
| 2,785.00                                   | 0.56            | 236.45      | 2,784.84            | 8.99       | -4.56      | -8.52                 | 0.15                  |
| 2,880.00                                   | 0.46            | 150.47      | 2,879.83            | 8.40       | -4.76      | -7.91                 | 0.74                  |
| 2,948.00                                   | 0.50            | 132.15      | 2,947.83            | 7.97       | -4.41      | -7.51                 | 0.23                  |
| 3,037.00                                   | 0.64            | 128.41      | 3,036.83            | 7.40       | -3.73      | -7.01                 | 0.16                  |
| 3,163.00                                   | 0.88            | 64.41       | 3,162.82            | 7.38       | -2.31      | -7.12                 | 0.66                  |
| 3,257.00                                   | 0.35            | 64.47       | 3,256.81            | 7.81       | -1.40      | -7.65                 | 0.56                  |
| 3,351.00                                   | 0.55            | 137.34      | 3,350.81            | 7.61       | -0.83      | -7.49                 | 0.59                  |
| 3,445.00                                   | 0.17            | 122.71      | 3,444.81            | 7.20       | -0.41      | -7.13                 | 0.41                  |
| 3,540.00                                   | 0.84            | 324.14      | 3,539.80            | 7.69       | -0.70      | -7.59                 | 1.05                  |
| 3,634.00                                   | 0.81            | 319.32      | 3,633.79            | 8.75       | -1.54      | -8.56                 | 0.08                  |
| 3,728.00                                   | 1.00            | 252.92      | 3,727.79            | 9.01       | -2.75      | -8.71                 | 1.07                  |
| 3,822.00                                   | 0.72            | 237.44      | 3,821.77            | 8.45       | -4.03      | -8.03                 | 0.38                  |
| 3,917.00                                   | 0.12            | 259.78      | 3,916.77            | 8.12       | -4.64      | -7.64                 | 0.64                  |
| 4,011.00                                   | 0.20            | 212.81      | 4,010.77            | 7.96       | -4.82      | -7.46                 | 0.16                  |
| 4,105.00                                   | 0.41            | 195.94      | 4,104.77            | 7.50       | -5.00      | -6.99                 | 0.24                  |
| 4,199.00                                   | 0.47            | 295.80      | 4,198.77            | 7.34       | -5.44      | -6.79                 | 0.72                  |
| 4,294.00                                   | 0.36            | 19.45       | 4,293.77            | 7.79       | -5.69      | -7.21                 | 0.59                  |

## Survey Report for #7-16-36 BTR - EM Surveys

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|
| 4,388.00                  | 0.53               | 53.44          | 4,387.76                  | 8.33          | -5.25         | -7.79                       | 0.33                        |
| 4,482.00                  | 0.53               | 151.39         | 4,481.76                  | 8.21          | -4.69         | -7.72                       | 0.85                        |
| 4,576.00                  | 0.36               | 163.10         | 4,575.76                  | 7.54          | -4.39         | -7.09                       | 0.20                        |
| 4,671.00                  | 0.24               | 255.02         | 4,670.76                  | 7.21          | -4.50         | -6.74                       | 0.46                        |
| 4,765.00                  | 0.56               | 236.90         | 4,764.76                  | 6.91          | -5.07         | -6.39                       | 0.36                        |
| 4,859.00                  | 0.74               | 149.88         | 4,858.75                  | 6.13          | -5.15         | -5.61                       | 0.96                        |
| 4,953.00                  | 1.00               | 166.44         | 4,952.74                  | 4.81          | -4.66         | -4.34                       | 0.38                        |
| 5,047.00                  | 0.64               | 169.87         | 5,046.73                  | 3.49          | -4.37         | -3.06                       | 0.39                        |
| 5,142.00                  | 0.14               | 81.65          | 5,141.73                  | 2.99          | -4.17         | -2.58                       | 0.69                        |
| 5,236.00                  | 0.52               | 93.99          | 5,235.73                  | 2.97          | -3.63         | -2.61                       | 0.41                        |
| 5,330.00                  | 0.42               | 12.26          | 5,329.72                  | 3.28          | -3.13         | -2.97                       | 0.66                        |
| 5,424.00                  | 0.98               | 39.98          | 5,423.72                  | 4.23          | -2.54         | -3.97                       | 0.68                        |
| 5,518.00                  | 0.44               | 87.03          | 5,517.71                  | 4.87          | -1.66         | -4.69                       | 0.80                        |
| 5,612.00                  | 0.61               | 173.12         | 5,611.71                  | 4.39          | -1.24         | -4.25                       | 0.77                        |
| 5,707.00                  | 0.15               | 190.74         | 5,706.71                  | 3.77          | -1.20         | -3.63                       | 0.49                        |
| 5,801.00                  | 0.24               | 237.62         | 5,800.70                  | 3.54          | -1.39         | -3.39                       | 0.19                        |
| 5,895.00                  | 0.28               | 103.73         | 5,894.70                  | 3.38          | -1.34         | -3.24                       | 0.51                        |
| 5,989.00                  | 0.35               | 114.54         | 5,988.70                  | 3.21          | -0.85         | -3.11                       | 0.10                        |
| 6,083.00                  | 0.26               | 266.52         | 6,082.70                  | 3.07          | -0.80         | -2.98                       | 0.63                        |
| 6,178.00                  | 0.81               | 128.85         | 6,177.70                  | 2.64          | -0.49         | -2.58                       | 1.07                        |
| 6,272.00                  | 0.88               | 134.79         | 6,271.69                  | 1.71          | 0.53          | -1.76                       | 0.12                        |
| 6,366.00                  | 0.46               | 207.28         | 6,365.68                  | 0.87          | 0.87          | -0.95                       | 0.92                        |
| 6,461.00                  | 0.28               | 192.17         | 6,460.68                  | 0.30          | 0.65          | -0.37                       | 0.21                        |
| 6,555.00                  | 0.26               | 63.61          | 6,554.68                  | 0.18          | 0.79          | -0.25                       | 0.52                        |
| 6,649.00                  | 0.43               | 212.62         | 6,648.68                  | -0.03         | 0.79          | -0.05                       | 0.71                        |
| 6,744.00                  | 0.88               | 177.43         | 6,743.67                  | -1.06         | 0.63          | 0.99                        | 0.61                        |
| 6,838.00                  | 1.28               | 178.29         | 6,837.66                  | -2.83         | 0.70          | 2.75                        | 0.43                        |
| 6,932.00                  | 0.81               | 216.23         | 6,931.64                  | -4.41         | 0.34          | 4.36                        | 0.86                        |
| 7,026.00                  | 0.56               | 146.45         | 7,025.64                  | -5.33         | 0.20          | 5.29                        | 0.86                        |
| 7,120.00                  | 0.86               | 179.01         | 7,119.63                  | -6.42         | 0.46          | 6.35                        | 0.52                        |
| 7,214.00                  | 0.92               | 201.29         | 7,213.62                  | -7.83         | 0.20          | 7.77                        | 0.37                        |
| 7,309.00                  | 1.48               | 202.59         | 7,308.60                  | -9.67         | -0.55         | 9.68                        | 0.59                        |
| 7,403.00                  | 0.99               | 206.00         | 7,402.58                  | -11.52        | -1.37         | 11.60                       | 0.53                        |
| 7,497.00                  | 1.15               | 204.10         | 7,496.56                  | -13.11        | -2.11         | 13.25                       | 0.17                        |
| 7,591.00                  | 0.97               | 198.00         | 7,590.54                  | -14.73        | -2.74         | 14.92                       | 0.23                        |
| 7,685.00                  | 1.11               | 213.69         | 7,684.53                  | -16.24        | -3.49         | 16.50                       | 0.34                        |
| 7,780.00                  | 1.24               | 190.74         | 7,779.51                  | -18.02        | -4.19         | 18.34                       | 0.51                        |
| 7,874.00                  | 0.85               | 215.22         | 7,873.49                  | -19.59        | -4.78         | 19.96                       | 0.62                        |
| 7,969.00                  | 1.51               | 214.72         | 7,968.47                  | -21.19        | -5.90         | 21.66                       | 0.69                        |
| 8,063.00                  | 1.69               | 205.97         | 8,062.44                  | -23.46        | -7.22         | 24.04                       | 0.32                        |
| 8,157.00                  | 1.45               | 200.51         | 8,156.40                  | -25.82        | -8.24         | 26.49                       | 0.30                        |
| 8,251.00                  | 0.96               | 200.70         | 8,250.38                  | -27.67        | -8.94         | 28.40                       | 0.52                        |
| 8,345.00                  | 0.61               | 220.44         | 8,344.37                  | -28.79        | -9.54         | 29.57                       | 0.47                        |
| 8,440.00                  | 0.65               | 198.16         | 8,439.37                  | -29.68        | -10.03        | 30.51                       | 0.26                        |
| 8,534.00                  | 0.77               | 194.50         | 8,533.36                  | -30.80        | -10.36        | 31.65                       | 0.14                        |
| 8,628.00                  | 0.11               | 93.28          | 8,627.36                  | -31.42        | -10.43        | 32.27                       | 0.85                        |
| 8,723.00                  | 0.41               | 110.47         | 8,722.35                  | -31.54        | -10.02        | 32.35                       | 0.32                        |
| 8,817.00                  | 0.96               | 151.12         | 8,816.35                  | -32.35        | -9.32         | 33.09                       | 0.75                        |
| 8,911.00                  | 1.15               | 178.58         | 8,910.33                  | -33.98        | -8.92         | 34.68                       | 0.57                        |
| 9,005.00                  | 0.59               | 142.62         | 9,004.32                  | -35.31        | -8.60         | 35.97                       | 0.80                        |
| 9,099.00                  | 0.86               | 156.82         | 9,098.31                  | -36.34        | -8.03         | 36.94                       | 0.34                        |

## Survey Report for #7-16-36 BTR - EM Surveys

| Measured Depth (ft)                                 | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|
| 9,194.00  | 0.81            | 176.61      | 9,193.30            | -37.67     | -7.71      | 38.23                 | 0.31                  |
| 9,288.00  | 0.81            | 200.06      | 9,287.30            | -38.95     | -7.90      | 39.53                 | 0.35                  |
| 9,382.00  | 1.26            | 201.78      | 9,381.28            | -40.54     | -8.51      | 41.17                 | 0.48                  |
| 9,476.00  | 1.24            | 201.66      | 9,475.26            | -42.44     | -9.27      | 43.13                 | 0.02                  |
| 9,571.00  | 0.91            | 181.48      | 9,570.24            | -44.15     | -9.67      | 44.87                 | 0.52                  |
| 9,665.00  | 0.74            | 178.16      | 9,664.23            | -45.51     | -9.67      | 46.22                 | 0.19                  |
| 9,760.00  | 1.20            | 165.76      | 9,759.22            | -47.08     | -9.40      | 47.77                 | 0.53                  |
| 9,854.00  | 1.39            | 163.76      | 9,853.19            | -49.13     | -8.84      | 49.75                 | 0.21                  |
| 9,948.00  | 1.83            | 174.77      | 9,947.16            | -51.72     | -8.39      | 52.29                 | 0.57                  |
| 10,042.00   | 2.43            | 171.75      | 10,041.09           | -55.19     | -7.96      | 55.70                 | 0.65                  |
| 10,136.00   | 2.45            | 173.72      | 10,135.01           | -59.16     | -7.46      | 59.60                 | 0.09                  |
| 10,230.00   | 1.92            | 170.69      | 10,228.94           | -62.71     | -6.98      | 63.09                 | 0.58                  |
| 10,325.00   | 1.28            | 167.77      | 10,323.90           | -65.32     | -6.50      | 65.64                 | 0.68                  |
| 10,419.00   | 1.65            | 167.55      | 10,417.87           | -67.66     | -5.99      | 67.93                 | 0.39                  |
| 10,513.00   | 2.38            | 174.85      | 10,511.81           | -70.93     | -5.52      | 71.13                 | 0.82                  |
| 10,608.00   | 2.82            | 183.11      | 10,606.71           | -75.23     | -5.47      | 75.41                 | 0.61                  |
| 10,679.00   | 3.12            | 187.45      | 10,677.62           | -78.89     | -5.81      | 79.08                 | 0.53                  |
| 10,899.00   | 4.27            | 192.87      | 10,897.16           | -92.81     | -8.41      | 93.19                 | 0.55                  |
| <b>Final Sperry MWD Survey @ 10899.00 ft</b>        |                 |             |                     |            |            |                       |                       |
| 10,950.00   | 4.27            | 192.87      | 10,948.02           | -96.51     | -9.26      | 96.95                 | 0.00                  |
| <b>Straight Line Projection to TD @ 10950.00 ft</b> |                 |             |                     |            |            |                       |                       |

### Survey Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | +E/-W (ft) | Comment                                      |
|---------------------|---------------------|------------------------------|------------|--|
| 0.00                | 0.00                | 0.00                         | 0.00       | Tie-on                                       |
| 134.00              | 134.00              | -0.10                        | 0.10       | First Sperry MWD Survey @ 134.00 ft          |
| 10,899.00           | 10,897.16           | -92.81                       | -8.41      | Final Sperry MWD Survey @ 10899.00 ft        |
| 10,950.00           | 10,948.02           | -96.51                       | -9.26      | Straight Line Projection to TD @ 10950.00 ft |

### Vertical Section Information

| Angle Type | Target               | Azimuth (°) | Origin Type | Origin +N/-S (ft) | +E/-W (ft) | Start TVD (ft) |
|------------|----------------------|-------------|-------------|-------------------|------------|----------------|
| TD         | No Target (Freehand) | 185.48      | Slot        | 0.00              | 0.00       | 0.00           |

### Survey tool program

| From (ft) | To (ft)   | Survey/Plan | Survey Tool |
|-----------|-----------|-------------|-------------|
| 134.00    | 10,950.00 | EM Surveys  | MWD         |



## Survey Report for #7-16-36 BTR - EM Surveys

### Targets

| Target Name<br>- hit/miss target<br>- Shape  | Dip<br>Angle<br>(°) | Dip<br>Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(ft) | Easting<br>(ft) | Latitude           | Longitude            |
|--|---------------------|--------------------|-------------|---------------|---------------|------------------|-----------------|--------------------|----------------------|
| #7-16-36 BTR_ZON<br>- survey misses target center by 16.44ft at 7675.18ft MD (7674.71 TVD, -16.09 N, -3.39 E)<br>- Rectangle (sides W200.00 H200.00 D3,040.00) | 0.00                | 0.00               | 7,675.00    | 0.00          | 0.00          | 689,370.81       | 2,261,599.42    | 0° 13' 20.099872 N | 107° 33' 47.340000 W |
| #7-16-36 BTR_SHL<br>- survey hits target center<br>- Point   | 0.00                | 0.00               | 0.00        | 0.00          | 0.00          | 689,370.81       | 2,261,599.42    | 0° 13' 20.099872 N | 107° 33' 47.340000 W |
| #7-16-36 BTR_BHL<br>- survey misses target center by 81.07ft at 10711.25ft MD (10709.81 TVD, -80.67 N, -6.06 E)<br>- Point                                     | 0.00                | 0.00               | 10,715.00   | 0.00          | 0.00          | 689,370.81       | 2,261,599.42    | 0° 13' 20.099872 N | 107° 33' 47.340000 W |

## North Reference Sheet for Sec. 16-T3S-R6W - #7-16-36 BTR - Plan A Rev 0

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 24' @ 6320.00ft (H&P 319). Northing and Easting are relative to #7-16-36 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000000 W°, Longitude Origin: 0° 0' 0.000000 E°, Latitude Origin: 40° 38' 60.000000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992162

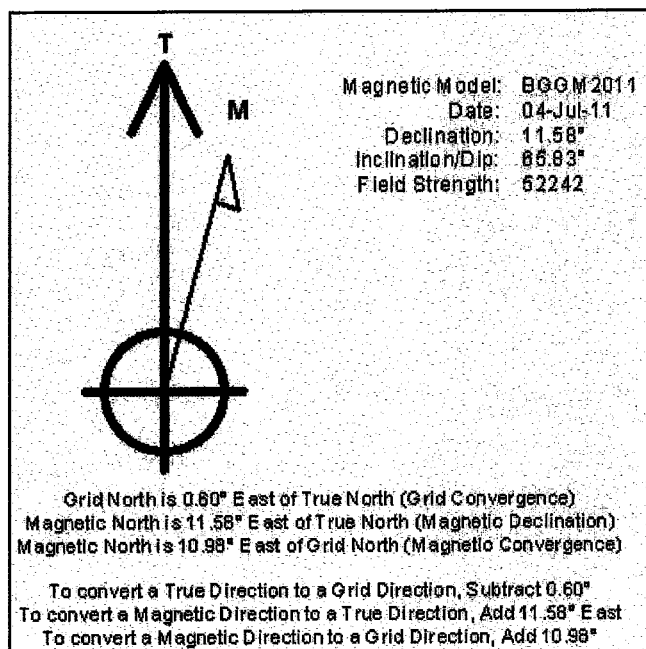
Grid Coordinates of Well: 689,370.81 ft N, 2,261,599.42 ft E

Geographical Coordinates of Well: 40° 13' 20.10" N, 110° 33' 47.34" W

Grid Convergence at Surface is: 0.60°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,950.00ft  
the Bottom Hole Displacement is 96.95ft in the Direction of 185.48° (True).

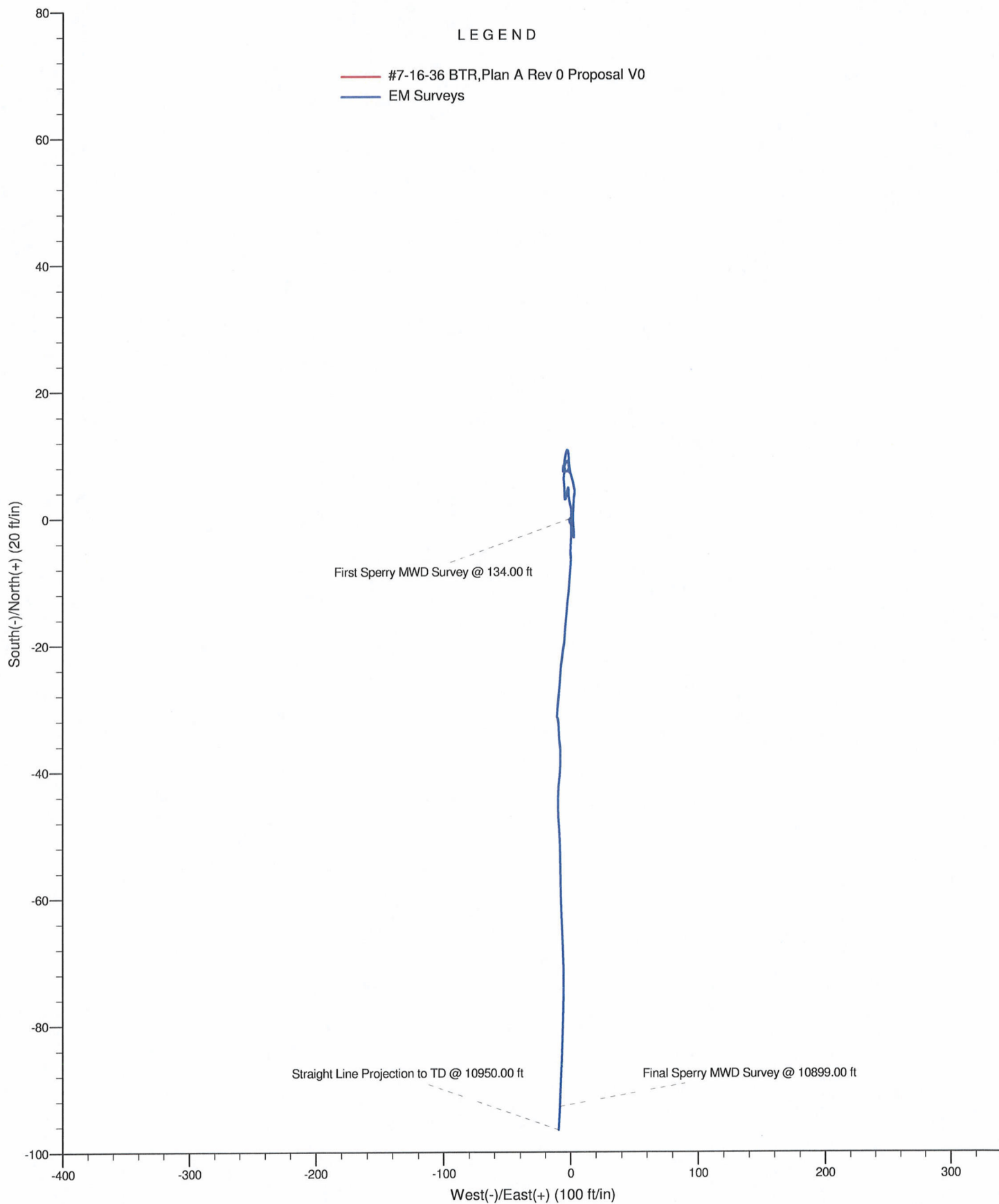
Magnetic Convergence at surface is: -10.98° ( 4 July 2011, , BGM2011)



Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 16-T3S-R6W  
Well: #7-16-36 BTR

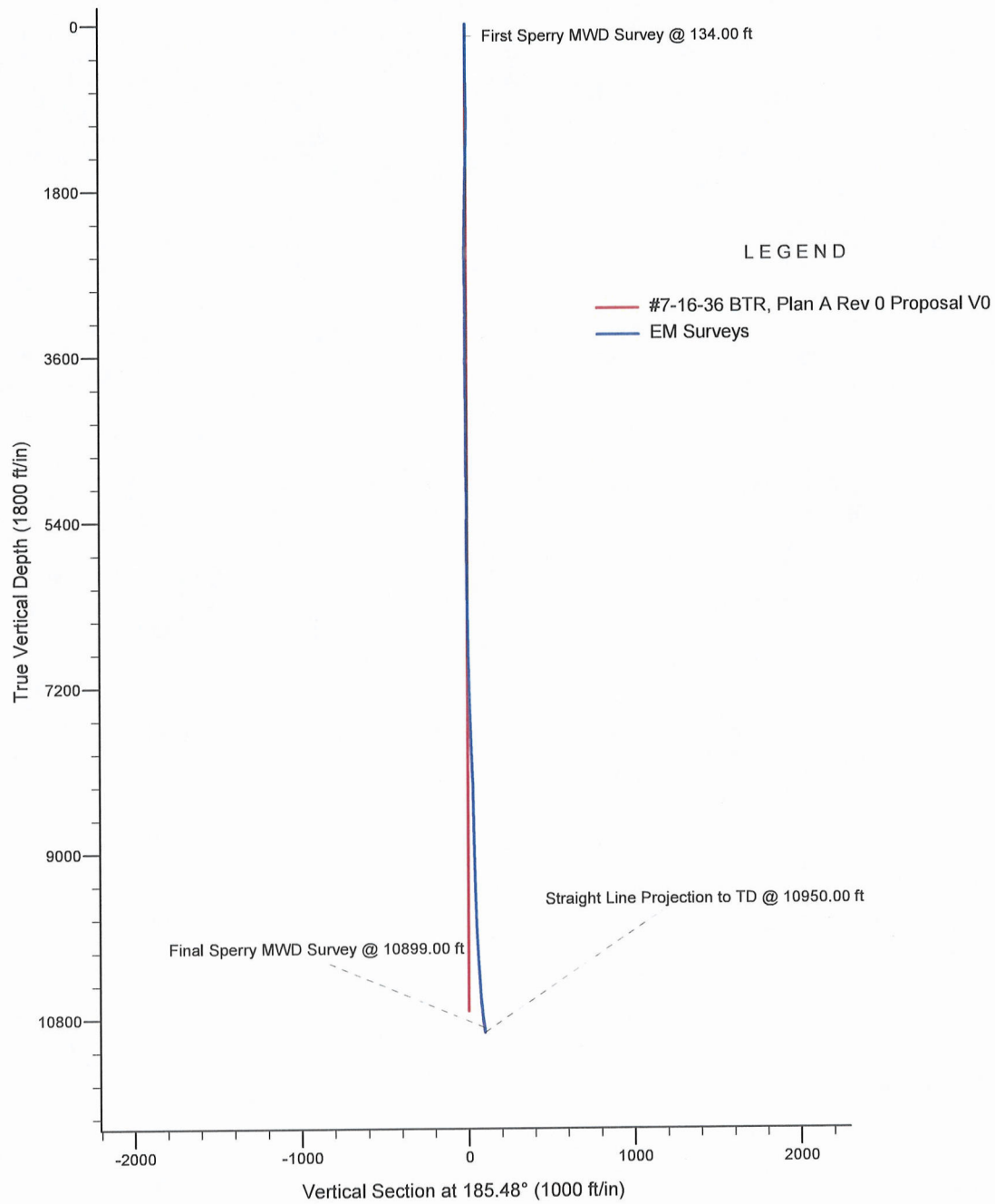
# Bill Barrett Corp

**HALLIBURTON**  
Sperry Drilling



Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 16-T3S-R6W  
Well: #7-16-36 BTR

Bill Barrett Corp



|   |  |  |
|---|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-6263 |
| <b>1. TYPE OF WELL</b><br>Oil Well  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE              |
| <b>2. NAME OF OPERATOR:</b><br>BILL BARRETT CORP  |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>3. ADDRESS OF OPERATOR:</b><br>1099 18th Street Ste 2300 , Denver, CO, 80202   |  | <b>8. WELL NAME and NUMBER:</b><br>7-16-36 BTR                   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1679 FNL 1390 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNE Section: 16 Township: 03.0S Range: 06.0W Meridian: U   |  | <b>9. API NUMBER:</b><br>43013341330000                          |
| <b>5. FIELD and POOL or WILDCAT:</b><br>CEDAR RIM   |  | <b>6. COUNTY:</b><br>DUCHESNE                                    |
| <b>7. STATE:</b><br>UTAH  |  | <b>8. STATE:</b><br>UTAH   |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>  |  |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>5/17/2017   | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION        |  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:   | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input checked="" type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER |  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:  | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input style="width: 100px;" type="text"/>                |  |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   |  |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>Well was shut in on 5/18/15 due to low production & low commodity prices. On 5/17/16 well will be shut in for 1 year. Current economics do not justify returning well to production. For this reason BBC is requesting an additional 1 year shut in, before a MIT is required, until 5/17/17. Well currently has 0 psi tubing, 854 psi casing, 0 psi Braden Head. With minimal to zero Braden Head pressure & 854 psi casing pressure, it is evident that the 5-1/2" production casing has full integrity & all formations are protected. Fluid level was found at 7,800 ft. from surface with TOC at 1,320 ft. Well is shut in at the wellhead & all surface equipment has been drained/winterized & still on an active lease operator route & is checked frequently for any surface & potential down hole issues. Well would be RTP if economics are justified at higher commodity price before 5/17/17. |  |  |
| <b>Accepted by the Utah Division of Oil, Gas and Mining</b><br><br><b>Date:</b> May 04, 2016<br><b>By:</b>  |  |  |
| <b>NAME (PLEASE PRINT)</b><br>Brady Riley   | <b>PHONE NUMBER</b><br>303 312-8115  | <b>TITLE</b><br>Permit Analyst                                   |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>4/7/2016  |  |

Effective Date: 11/1/2016

| <b>FORMER OPERATOR:</b>  | <b>NEW OPERATOR:</b>   |
|--|--|
| Bill Barrett Corporation<br>1099 18th Street, Suite 2300<br>Denver, CO 80202 | Rig II, LLC<br>1582 West 2600 South<br>Woods Cross, UT 84087 |
| CA Number(s):  | Unit(s):   |

**WELL INFORMATION:**

| Well Name         | Sec | TWN | RNG | API | Entity | Mineral | Surface | Type | Status |
|-------------------|-----|-----|-----|-----|--------|---------|---------|------|--------|
| See Attached List |     |     |     |     |        |         |         |      |        |

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

| Well Name           | Sec | TWN  | RNG  | API Number | Entity | Mineral | Surface | Type | Status |
|---------------------|-----|------|------|------------|--------|---------|---------|------|--------|
| SWD 9-36 BTR        | 9   | 030S | 060W | 4301350646 | 18077  | Indian  | Fee     | WD   | A      |
| 16-6D-46 BTR SWD    | 6   | 040S | 060W | 4301350781 | 18327  | Indian  | Fee     | WD   | A      |
| 6-32-36 BTR SWD     | 32  | 030S | 060W | 4301350921 | 18329  | Indian  | Fee     | WD   | A      |
| LC TRIBAL 8-26D-47  | 26  | 040S | 070W | 4301334024 |        | Indian  | Indian  | OW   | APD    |
| 16-21D-37 BTR       | 21  | 030S | 070W | 4301350758 |        | Indian  | Fee     | OW   | APD    |
| 14-11D-37 BTR       | 11  | 030S | 070W | 4301350862 |        | Indian  | Fee     | OW   | APD    |
| 7-17D-46 BTR        | 17  | 040S | 060W | 4301350883 |        | Indian  | Indian  | OW   | APD    |
| 14-12D-37 BTR       | 12  | 030S | 070W | 4301350894 |        | Indian  | Fee     | OW   | APD    |
| 1-18D-36 BTR        | 18  | 030S | 060W | 4301350922 |        | Indian  | Fee     | OW   | APD    |
| 13-2D-45 BTR        | 2   | 040S | 050W | 4301350931 |        | Indian  | Indian  | OW   | APD    |
| 5H-16-46 BTR        | 16  | 040S | 060W | 4301350992 |        | Indian  | Indian  | OW   | APD    |
| 9H-17-45 BTR        | 17  | 040S | 050W | 4301351098 |        | Indian  | Indian  | OW   | APD    |
| 13H-8-46 BTR UB     | 8   | 040S | 060W | 4301351124 |        | Indian  | Indian  | OW   | APD    |
| 8H-9-46 BTR         | 9   | 040S | 060W | 4301351140 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 7-31D-37  | 31  | 030S | 070W | 4301351147 |        | Indian  | Fee     | OW   | APD    |
| 14-16D-45 BTR       | 16  | 040S | 050W | 4301351178 |        | Indian  | Indian  | OW   | APD    |
| 16-19D-37 BTR       | 19  | 030S | 070W | 4301351179 |        | Indian  | Fee     | OW   | APD    |
| 6-2D-45 BTR         | 2   | 040S | 050W | 4301351234 |        | Indian  | Indian  | OW   | APD    |
| 2-2D-45 BTR         | 2   | 040S | 050W | 4301351235 |        | Indian  | Indian  | OW   | APD    |
| 10-26-35 BTR        | 26  | 030S | 050W | 4301351248 |        | Indian  | Fee     | OW   | APD    |
| LC TRIBAL 1H-33-46  | 33  | 040S | 060W | 4301351257 |        | Indian  | Fee     | OW   | APD    |
| LC TRIBAL 9-25D-46  | 25  | 040S | 060W | 4301351276 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 8H-30-45  | 30  | 040S | 050W | 4301351277 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 16H-30-45 | 30  | 040S | 050W | 4301351279 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 13-30D-45 | 30  | 040S | 050W | 4301351282 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 16H-36-46 | 36  | 040S | 060W | 4301351291 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 13H-30-46 | 30  | 040S | 060W | 4301351321 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 13H-31-46 | 31  | 040S | 060W | 4301351326 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 16-31D-46 | 31  | 040S | 060W | 4301351328 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 5H-26-47  | 26  | 040S | 070W | 4301351337 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 5H-19-45  | 20  | 040S | 050W | 4301351349 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 16-36D-47 | 36  | 040S | 070W | 4301351363 |        | Indian  | Indian  | OW   | APD    |
| 15-4D-47 BTR        | 4   | 040S | 070W | 4301351377 |        | Indian  | Fee     | OW   | APD    |
| 16-23D-46 LC TRIBAL | 23  | 040S | 060W | 4301351396 |        | Indian  | Fee     | OW   | APD    |
| 15-2D-36 BTR        | 2   | 030S | 060W | 4301351419 |        | Indian  | Fee     | OW   | APD    |
| 16-23D-37 BTR       | 23  | 030S | 070W | 4301351420 |        | Indian  | Fee     | OW   | APD    |
| 11-9D-47 BTR        | 9   | 040S | 070W | 4301351422 |        | Indian  | Fee     | OW   | APD    |
| 15-13D-47 BTR       | 13  | 040S | 070W | 4301351424 |        | Indian  | Indian  | OW   | APD    |
| LC TRIBAL 15-19D-46 | 19  | 040S | 060W | 4301351426 |        | Indian  | Indian  | OW   | APD    |
| 16-13D-45 BTR       | 13  | 040S | 050W | 4301351428 |        | Indian  | Indian  | OW   | APD    |

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

|                     |    |      |      |            |  |        |        |    |     |
|---------------------|----|------|------|------------|--|--------|--------|----|-----|
| 14-12D-45 BTR       | 12 | 040S | 050W | 4301351444 |  | Indian | Indian | OW | APD |
| 16-14D-45 BTR       | 14 | 040S | 050W | 4301351445 |  | Indian | Indian | OW | APD |
| 5-13D-45 BTR        | 13 | 040S | 050W | 4301351446 |  | Indian | Indian | OW | APD |
| LC TRIBAL 16-26D-46 | 26 | 040S | 060W | 4301351450 |  | Indian | State  | OW | APD |
| LC TRIBAL 16-34D-46 | 34 | 040S | 060W | 4301351451 |  | Indian | State  | OW | APD |
| 16-12D-45 BTR       | 12 | 040S | 050W | 4301351452 |  | Indian | Indian | OW | APD |
| 8-12D-45 BTR        | 12 | 040S | 050W | 4301351453 |  | Indian | Indian | OW | APD |
| LC TRIBAL 1-35D-46  | 35 | 040S | 060W | 4301351454 |  | Indian | Fee    | OW | APD |
| 16-25D-37 BTR       | 25 | 030S | 070W | 4301351455 |  | Indian | Fee    | OW | APD |
| LC TRIBAL 13H-29-46 | 28 | 040S | 060W | 4301351462 |  | Indian | Fee    | OW | APD |
| LC TRIBAL 14-30D-37 | 30 | 030S | 070W | 4301351494 |  | Indian | Fee    | OW | APD |
| 7-13D-45 BTR        | 13 | 040S | 050W | 4301351497 |  | Indian | Indian | OW | APD |
| LC TRIBAL 4H-35-46  | 35 | 040S | 060W | 4301351515 |  | Indian | Fee    | OW | APD |
| LC TRIBAL 13H-19-46 | 19 | 040S | 060W | 4301351543 |  | Indian | Indian | OW | APD |
| 16-26D-37 BTR       | 26 | 030S | 070W | 4301351598 |  | Indian | Fee    | OW | APD |
| LC TRIBAL 16-31D-37 | 31 | 030S | 070W | 4301351610 |  | Indian | Fee    | OW | APD |
| 5-4-35 BTR          | 4  | 030S | 050W | 4301351613 |  | Indian | Fee    | OW | APD |
| LC TRIBAL 16-31D-47 | 31 | 040S | 070W | 4301351616 |  | Indian | Indian | OW | APD |
| LC TRIBAL 13H-31-47 | 31 | 040S | 070W | 4301351617 |  | Indian | Indian | OW | APD |
| LC TRIBAL 13-32D-47 | 32 | 040S | 070W | 4301351619 |  | Indian | Indian | OW | APD |
| LC TRIBAL 16H-32-47 | 32 | 040S | 070W | 4301351620 |  | Indian | Indian | OW | APD |
| LC TRIBAL 1-32D-47  | 32 | 040S | 070W | 4301351624 |  | Indian | Indian | OW | APD |
| LC TRIBAL 4H-32-47  | 32 | 040S | 070W | 4301351625 |  | Indian | Indian | OW | APD |
| LC TRIBAL 13-28D-47 | 28 | 040S | 070W | 4301351627 |  | Indian | Indian | OW | APD |
| LC TRIBAL 13H-29-47 | 28 | 040S | 070W | 4301351628 |  | Indian | Indian | OW | APD |
| LC TRIBAL 16H-28-47 | 28 | 040S | 070W | 4301351629 |  | Indian | Indian | OW | APD |
| LC TRIBAL 1-28D-47  | 28 | 040S | 070W | 4301351639 |  | Indian | Indian | OW | APD |
| LC TRIBAL 1H-27-47  | 28 | 040S | 070W | 4301351640 |  | Indian | Indian | OW | APD |
| LC TRIBAL 4H-28-47  | 28 | 040S | 070W | 4301351641 |  | Indian | Indian | OW | APD |
| LC TRIBAL 7-25D-58  | 25 | 050S | 080W | 4301351643 |  | Indian | Indian | OW | APD |
| LC TRIBAL 6-25D-58  | 25 | 050S | 080W | 4301351644 |  | Indian | Indian | OW | APD |
| LC TRIBAL 13H-24-58 | 24 | 050S | 080W | 4301351645 |  | Indian | Indian | OW | APD |
| LC TRIBAL 16-24D-58 | 24 | 050S | 080W | 4301351646 |  | Indian | Indian | OW | APD |
| LC Tribal 8-23D-46  | 23 | 040S | 060W | 4301351654 |  | Indian | Fee    | OW | APD |
| LC Tribal 16-35D-45 | 35 | 040S | 050W | 4301351656 |  | Indian | Fee    | OW | APD |
| LC Tribal 13H-35-45 | 35 | 040S | 050W | 4301351657 |  | Indian | Fee    | OW | APD |
| LC Tribal 16-36D-45 | 36 | 040S | 050W | 4301351658 |  | Indian | Fee    | OW | APD |
| LC Tribal 13H-36-45 | 36 | 040S | 050W | 4301351659 |  | Indian | Fee    | OW | APD |
| LC Tribal 5-36D-45  | 36 | 040S | 050W | 4301351661 |  | Indian | Fee    | OW | APD |
| LC Tribal 8-26D-46  | 26 | 040S | 060W | 4301351663 |  | Indian | Fee    | OW | APD |
| 3-29D-36 BTR        | 29 | 030S | 060W | 4301351665 |  | Indian | Fee    | OW | APD |

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

|                     |    |      |      |            |        |        |    |     |
|---------------------|----|------|------|------------|--------|--------|----|-----|
| LC Tribal 5-35D-45  | 35 | 040S | 050W | 4301351666 | Indian | Fee    | OW | APD |
| LC Tribal 5-24D-46  | 24 | 040S | 060W | 4301351668 | Indian | Indian | OW | APD |
| LC TRIBAL 6-12D-58  | 12 | 050S | 080W | 4301351696 | Indian | Indian | OW | APD |
| LC TRIBAL 8-12D-58  | 12 | 050S | 080W | 4301351697 | Indian | Indian | OW | APD |
| LC TRIBAL 16H-22-47 | 21 | 040S | 070W | 4301351700 | Indian | Indian | OW | APD |
| 5-25D-37 BTR        | 25 | 030S | 070W | 4301351803 | Indian | Fee    | OW | APD |
| 8-3D-36 BTR         | 3  | 030S | 060W | 4301351804 | Indian | Fee    | OW | APD |
| 14-26D-37 BTR       | 26 | 030S | 070W | 4301351805 | Indian | Fee    | OW | APD |
| 9-4-35 BTR          | 4  | 030S | 050W | 4301351806 | Indian | Fee    | OW | APD |
| 11-4D-35 BTR        | 4  | 030S | 050W | 4301351807 | Indian | Fee    | OW | APD |
| 16-27D-37 BTR       | 27 | 030S | 070W | 4301351808 | Indian | Fee    | OW | APD |
| 14-27D-37 BTR       | 27 | 030S | 070W | 4301351809 | Indian | Fee    | OW | APD |
| 14-16D-46 BTR       | 16 | 040S | 060W | 4301351812 | Indian | Indian | OW | APD |
| LC Tribal 16-35D-48 | 35 | 040S | 080W | 4301351847 | Indian | Indian | OW | APD |
| LC Tribal 13H-35-48 | 35 | 040S | 080W | 4301351848 | Indian | Indian | OW | APD |
| LC Tribal 13-2D-58  | 11 | 050S | 080W | 4301351850 | Indian | Indian | OW | APD |
| 5-13D-36 BTR        | 13 | 030S | 060W | 4301351862 | Indian | Fee    | OW | APD |
| 5-8D-36 BTR         | 8  | 030S | 060W | 4301351871 | Indian | Fee    | OW | APD |
| 16-1D-36 BTR        | 1  | 030S | 060W | 4301351872 | Indian | Fee    | OW | APD |
| 8-18D-46 BTR        | 18 | 040S | 060W | 4301351897 | Indian | Fee    | OW | APD |
| LC Tribal 5-36D-46  | 36 | 040S | 060W | 4301351905 | Indian | Indian | OW | APD |
| LC Tribal 5-26D-45  | 26 | 040S | 050W | 4301351907 | Indian | Indian | OW | APD |
| 14-13D-45 BTR       | 13 | 040S | 050W | 4301351974 | Indian | Indian | OW | APD |
| 14-34D-46 DLB       | 34 | 040S | 060W | 4301351975 | Indian | Fee    | OW | APD |
| LC Tribal 5-21D-45  | 21 | 040S | 050W | 4301352001 | Indian | Indian | OW | APD |
| LC Tribal 8-22D-45  | 22 | 040S | 050W | 4301352002 | Indian | Indian | OW | APD |
| LC Tribal 8-25D-45  | 25 | 040S | 050W | 4301352007 | Indian | Indian | OW | APD |
| LC Tribal 16-25D-45 | 25 | 040S | 050W | 4301352008 | Indian | Indian | OW | APD |
| LC Tribal 16-22D-45 | 22 | 040S | 050W | 4301352009 | Indian | Indian | OW | APD |
| LC Tribal 16-26D-45 | 26 | 040S | 050W | 4301352010 | Indian | Indian | OW | APD |
| LC Tribal 14-31D-37 | 31 | 030S | 070W | 4301352016 | Indian | Fee    | OW | APD |
| 5-12D-45 BTR        | 12 | 040S | 050W | 4301352030 | Indian | Indian | OW | APD |
| LC Tribal 9-20D-45  | 20 | 040S | 050W | 4301352031 | Indian | Indian | OW | APD |
| LC Tribal 13-35D-47 | 35 | 040S | 070W | 4301352055 | Indian | Indian | OW | APD |
| LC Tribal 1-23D-47  | 23 | 040S | 070W | 4301352057 | Indian | Indian | OW | APD |
| 9-17D-46 BTR        | 17 | 040S | 060W | 4301352059 | Indian | Indian | OW | APD |
| 11-18D-46 BTR       | 18 | 040S | 060W | 4301352060 | Indian | Indian | OW | APD |
| 9-10D-47 BTR        | 10 | 040S | 070W | 4301352092 | Indian | Fee    | OW | APD |
| LC Tribal 1-17D-47  | 17 | 040S | 070W | 4301352096 | Indian | Fee    | OW | APD |
| 7-35D-37 BTR        | 35 | 030S | 070W | 4301352115 | Indian | Fee    | OW | APD |
| 14-25D-37 BTR       | 25 | 030S | 070W | 4301352116 | Indian | Fee    | OW | APD |

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

|                     |    |      |      |            |        |        |    |     |
|---------------------|----|------|------|------------|--------|--------|----|-----|
| LC Tribal 5-25-46   | 25 | 040S | 060W | 4301352126 | Indian | Indian | OW | APD |
| 8-33D-35 BTR        | 33 | 030S | 050W | 4301352161 | Indian | Fee    | OW | APD |
| 5-4D-36 BTR         | 4  | 030S | 060W | 4301352175 | Indian | Fee    | OW | APD |
| 7-4D-36 BTR         | 4  | 030S | 060W | 4301352176 | Indian | Fee    | OW | APD |
| LC Tribal 4-36D-47  | 36 | 040S | 070W | 4301352186 | Indian | Indian | OW | APD |
| LC Tribal 4-22D-46  | 22 | 040S | 060W | 4301352944 | Indian | Indian | OW | APD |
| LC Tribal 16-22D-46 | 22 | 040S | 060W | 4301352945 | Indian | Indian | OW | APD |
| LC Tribal 11-19D-46 | 19 | 040S | 060W | 4301352946 | Indian | Indian | OW | APD |
| LC Tribal 7-20D-45  | 20 | 040S | 050W | 4301352947 | Indian | Indian | OW | APD |
| 15-11D-35 BTR       | 11 | 030S | 050W | 4301353056 | Indian | Fee    | OW | APD |
| 13-11D-35 BTR       | 11 | 030S | 050W | 4301353057 | Indian | Fee    | OW | APD |
| BTR 16-36D-37       | 36 | 030S | 070W | 4301353059 | Indian | Fee    | OW | APD |
| 4-29D-35 BTR        | 30 | 030S | 050W | 4301353060 | Indian | Fee    | OW | APD |
| 1-30D-35 BTR        | 30 | 030S | 050W | 4301353061 | Fee    | Fee    | OW | APD |
| LC TRIBAL 3-23D-46  | 23 | 040S | 060W | 4301353066 | Indian | State  | OW | APD |
| LC Tribal 14-23D-46 | 23 | 040S | 060W | 4301353067 | Indian | State  | OW | APD |
| LC Tribal 13-25D-46 | 25 | 040S | 060W | 4301353068 | Indian | Indian | OW | APD |
| LC Tribal 14-26D-46 | 26 | 040S | 060W | 4301353069 | Indian | State  | OW | APD |
| LC Tribal 5-26D-46  | 26 | 040S | 060W | 4301353070 | Indian | State  | OW | APD |
| LC Tribal 11-35D-45 | 35 | 040S | 050W | 4301353071 | Indian | State  | OW | APD |
| LC Tribal 7-35D-45  | 35 | 040S | 050W | 4301353072 | Indian | State  | OW | APD |
| LC Tribal 3-35D-45  | 35 | 040S | 050W | 4301353075 | Indian | State  | OW | APD |
| LC Tribal 14-36D-45 | 36 | 040S | 050W | 4301353076 | Indian | State  | OW | APD |
| LC Tribal 13-36D-45 | 36 | 040S | 050W | 4301353077 | Indian | State  | OW | APD |
| LC Tribal 10-36D-45 | 36 | 040S | 050W | 4301353078 | Indian | State  | OW | APD |
| LC Tribal 8-36D-45  | 36 | 040S | 050W | 4301353079 | Indian | State  | OW | APD |
| LC Tribal 6-36D-45  | 36 | 040S | 050W | 4301353080 | Indian | State  | OW | APD |
| LC Tribal 1-34D-46  | 34 | 040S | 060W | 4301353081 | Indian | State  | OW | APD |
| LC Tribal 9-27D-46  | 27 | 040S | 060W | 4301353082 | Indian | State  | OW | APD |
| LC Tribal 13-35D-45 | 35 | 040S | 050W | 4301353083 | Indian | State  | OW | APD |
| LC Tribal 8-35D-45  | 35 | 040S | 050W | 4301353084 | Indian | State  | OW | APD |
| LC Tribal 15-35D-45 | 35 | 040S | 050W | 4301353085 | Indian | State  | OW | APD |
| LC Tribal 12-25D-45 | 25 | 040S | 050W | 4301353122 | Indian | Indian | OW | APD |
| LC Tribal 14-25D-45 | 25 | 040S | 050W | 4301353123 | Indian | Indian | OW | APD |
| LC Tribal 10-25D-45 | 25 | 040S | 050W | 4301353124 | Indian | Indian | OW | APD |
| LC Tribal 11-26-45  | 26 | 040S | 050W | 4301353125 | Indian | Indian | OW | APD |
| LC Tribal 13-26D-45 | 26 | 040S | 050W | 4301353126 | Indian | Indian | OW | APD |
| LC Tribal 7-31D-46  | 31 | 040S | 060W | 4301353127 | Indian | Indian | OW | APD |
| LC Tribal 7-19D-45  | 19 | 040S | 050W | 4301353128 | Indian | Indian | OW | APD |
| LC Tribal 5-19D-45  | 19 | 040S | 050W | 4301353130 | Indian | Indian | OW | APD |
| LC Tribal 7-25D-46  | 25 | 040S | 060W | 4301353132 | Indian | Indian | OW | APD |

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|                     |    |      |      |            |       |        |        |    |     |
|---------------------|----|------|------|------------|-------|--------|--------|----|-----|
| LC Tribal 7-24D-46  | 24 | 040S | 060W | 4301353134 |       | Indian | Indian | OW | APD |
| LC Tribal 14-31D-46 | 31 | 040S | 060W | 4301353135 |       | Indian | Indian | OW | APD |
| LC Tribal 14-30D-46 | 30 | 040S | 060W | 4301353136 |       | Indian | Indian | OW | APD |
| 13-4-35 BTR SWD     | 4  | 030S | 050W | 4301353293 |       | Fee    | Fee    | OW | APD |
| LC FEE 14-26D-47    | 26 | 040S | 070W | 4301353294 |       | Fee    | Indian | OW | APD |
| LC Fee 5-25D-47     | 25 | 040S | 070W | 4301353295 |       | Fee    | Indian | OW | APD |
| 7-35-46 LC SWD      | 35 | 040S | 060W | 4301353296 |       | Fee    | Fee    | OW | APD |
| LC Fee 1H-33-47     | 32 | 040S | 070W | 4301353309 |       | Fee    | Indian | OW | APD |
| LC FEE 14-2D-58     | 2  | 050S | 080W | 4301353312 |       | Fee    | Indian | OW | APD |
| LC FEE 13H-21-47    | 21 | 040S | 070W | 4301353313 |       | Fee    | Indian | OW | APD |
| LC Fee 16-21D-47    | 21 | 040S | 070W | 4301353326 |       | Fee    | Indian | OW | APD |
| 16-7D-46 BTR        | 7  | 040S | 060W | 4301353328 |       | Fee    | Indian | OW | APD |
| LC Fee 15-26D-47    | 26 | 040S | 070W | 4301353331 |       | Fee    | Indian | OW | APD |
| LC Fee 4-24D-47     | 23 | 040S | 070W | 4301353332 |       | Fee    | Indian | OW | APD |
| LC Fee 5-34D-47     | 34 | 040S | 070W | 4301353333 |       | Fee    | Indian | OW | APD |
| LC Fee 5-35D-47     | 35 | 040S | 070W | 4301353334 |       | Fee    | Indian | OW | APD |
| 13-34D-47 LC Fee    | 34 | 040S | 070W | 4301353337 |       | Fee    | Indian | OW | APD |
| 14-35D-35 BTR       | 35 | 030S | 050W | 4301352120 |       | Fee    | Fee    | OW | DRL |
| 6-17D-46 BTR        | 17 | 040S | 060W | 4301351078 |       | Indian | Indian | OW | OPS |
| 5-34D-35 BTR        | 34 | 030S | 050W | 4301351187 |       | Indian | Fee    | OW | OPS |
| 5-10D-45 BTR        | 10 | 040S | 050W | 4301351221 |       | Indian | Indian | OW | OPS |
| 5-3D-45 BTR         | 3  | 040S | 050W | 4301351810 |       | Indian | Indian | OW | OPS |
| 9-34D-35 BTR        | 34 | 030S | 050W | 4301352117 |       | Fee    | Fee    | OW | OPS |
| 5-35D-35 BTR        | 35 | 030S | 050W | 4301352118 |       | Fee    | Fee    | OW | OPS |
| 1-2D-46 BTR         | 2  | 040S | 060W | 4301353086 |       | Indian | Fee    | OW | OPS |
| 7-21-46 DLB         | 21 | 040S | 060W | 4301333567 | 16526 | Indian | Indian | OW | P   |
| LC TRIBAL 1H-27-46  | 27 | 040S | 060W | 4301333568 | 18175 | Indian | Fee    | GW | P   |
| 7-29-46 DLB         | 29 | 040S | 060W | 4301333584 | 17603 | Indian | Fee    | GW | P   |
| LC TRIBAL 12H-28-46 | 28 | 040S | 060W | 4301333631 | 18132 | Indian | Indian | GW | P   |
| LC TRIBAL 13H-21-46 | 21 | 040S | 060W | 4301333632 | 18107 | Indian | Indian | GW | P   |
| 12-36-36 BTR        | 36 | 030S | 060W | 4301333638 | 16336 | Indian | Fee    | GW | P   |
| 5-5-46 BTR          | 5  | 040S | 060W | 4301333639 | 16542 | Indian | Fee    | OW | P   |
| 5-23-36 BTR         | 23 | 030S | 060W | 4301333642 | 16675 | Indian | Fee    | GW | P   |
| 14-29-36 BTR        | 29 | 030S | 060W | 4301333643 | 16725 | Indian | Fee    | OW | P   |
| 14-30-36 BTR        | 30 | 030S | 060W | 4301333644 | 16701 | Indian | Fee    | GW | P   |
| 7-20-46 DLB         | 20 | 040S | 060W | 4301333657 | 16584 | Indian | Indian | OW | P   |
| LC TRIBAL 5-21D-46  | 21 | 040S | 060W | 4301333658 | 18887 | Indian | Indian | OW | P   |
| 5-20-46 DLB         | 20 | 040S | 060W | 4301333659 | 18750 | Indian | Indian | GW | P   |
| LC TRIBAL 13H-20-46 | 20 | 040S | 060W | 4301333678 | 17979 | Indian | Indian | GW | P   |
| 14-7-46 BTR         | 7  | 040S | 060W | 4301333806 | 16890 | Indian | Indian | GW | P   |
| 7-8-45 BTR          | 8  | 040S | 050W | 4301333820 | 16974 | Indian | Indian | OW | P   |

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|                     |    |      |      |            |       |        |        |    |   |
|---------------------|----|------|------|------------|-------|--------|--------|----|---|
| 1-5-45 BTR          | 5  | 040S | 050W | 4301333868 | 16931 | Indian | Indian | OW | P |
| 5-16-36 BTR         | 16 | 030S | 060W | 4301333970 | 17195 | Indian | Fee    | OW | P |
| 5-29-36 BTR         | 29 | 030S | 060W | 4301333972 | 17557 | Indian | Fee    | OW | P |
| 4-30-36 BTR         | 30 | 030S | 060W | 4301333973 | 17249 | Indian | Fee    | OW | P |
| 7-19-46 DLB         | 19 | 040S | 060W | 4301334004 | 19018 | Indian | Indian | OW | P |
| 5-25-36 BTR         | 25 | 030S | 060W | 4301334021 | 17126 | Fee    | Fee    | OW | P |
| 5-4-45 BTR          | 4  | 040S | 050W | 4301334089 | 17507 | Indian | Indian | OW | P |
| 13-2-46 BTR         | 2  | 040S | 060W | 4301334090 | 18618 | Indian | Indian | OW | P |
| 2-3-45 BTR          | 3  | 040S | 050W | 4301334099 | 17932 | Indian | Indian | OW | P |
| 7-6-45 BTR          | 6  | 040S | 050W | 4301334100 | 17653 | Indian | Indian | OW | P |
| 1-9-45 BTR          | 9  | 040S | 050W | 4301334101 | 17910 | Indian | Indian | OW | P |
| 8-10-45 BTR         | 10 | 040S | 050W | 4301334102 | 17530 | Indian | Indian | OW | P |
| 7-17-45 BTR         | 17 | 040S | 050W | 4301334104 | 17933 | Indian | Indian | OW | P |
| 16-7-45 BTR         | 7  | 040S | 050W | 4301334111 | 17665 | Indian | Indian | OW | P |
| 15-18-45 BTR        | 18 | 040S | 050W | 4301334112 | 17832 | Indian | Indian | OW | P |
| 6-12-46 BTR         | 12 | 040S | 060W | 4301334114 | 17964 | Indian | Indian | OW | P |
| 5-13-46 BTR         | 13 | 040S | 060W | 4301334115 | 17833 | Indian | Indian | OW | P |
| 16-26-36 BTR        | 26 | 030S | 060W | 4301334132 | 18028 | Indian | Fee    | OW | P |
| 1-23-36 BTR         | 23 | 030S | 060W | 4301334136 | 17722 | Indian | Fee    | OW | P |
| 15-10-36 BTR        | 10 | 030S | 060W | 4301334277 | 17419 | Indian | Fee    | OW | P |
| 14-5-46 BTR         | 5  | 040S | 060W | 4301350307 | 17624 | Fee    | Fee    | OW | P |
| 14X-22-46 DLB       | 22 | 040S | 060W | 4301350351 | 17604 | Indian | Indian | OW | P |
| 16-13-36 BTR        | 13 | 030S | 060W | 4301350372 | 17853 | Indian | Fee    | OW | P |
| 5-33-46 DLB         | 33 | 040S | 060W | 4301350397 | 17765 | Indian | Fee    | OW | P |
| 5-34-46 DLB         | 34 | 040S | 060W | 4301350415 | 17801 | Indian | State  | GW | P |
| LC FEE 12H-32-46    | 32 | 040S | 060W | 4301350431 | 18003 | Fee    | Fee    | OW | P |
| 1-13D-47 BTR        | 13 | 040S | 070W | 4301350445 | 18205 | Indian | Fee    | OW | P |
| 16-8D-45 BTR        | 8  | 040S | 050W | 4301350466 | 18799 | Indian | Indian | OW | P |
| 7-13D-46 BTR        | 13 | 040S | 060W | 4301350470 | 18076 | Indian | Indian | OW | P |
| 14-8D-45 BTR        | 8  | 040S | 050W | 4301350567 | 18207 | Indian | Indian | OW | P |
| 14-5D-45 BTR        | 5  | 040S | 050W | 4301350568 | 18108 | Indian | Indian | OW | P |
| 16-31D-36 BTR       | 31 | 030S | 060W | 4301350573 | 18004 | Indian | Fee    | OW | P |
| 5-7D-46 BTR         | 7  | 040S | 060W | 4301350574 | 18176 | Indian | Indian | OW | P |
| LC TRIBAL 13H-33-46 | 34 | 040S | 060W | 4301350575 | 18223 | Indian | State  | OW | P |
| 5-8-45 BTR          | 8  | 040S | 050W | 4301350607 | 18279 | Indian | Indian | OW | P |
| 16-6D-45 BTR        | 6  | 040S | 050W | 4301350610 | 18177 | Indian | Indian | OW | P |
| 5-18D-45 BTR        | 18 | 040S | 050W | 4301350611 | 18300 | Indian | Indian | OW | P |
| 7-26-37 BTR         | 26 | 030S | 070W | 4301350641 | 18131 | Indian | Fee    | OW | P |
| 3-11D-36 BTR        | 11 | 030S | 060W | 4301350642 | 18299 | Indian | Fee    | OW | P |
| 16-1D-46 BTR        | 1  | 040S | 060W | 4301350675 | 18525 | Indian | Indian | OW | P |
| 14-3-45 BTR         | 3  | 040S | 050W | 4301350676 | 18363 | Indian | Indian | OW | P |



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|                     |    |      |      |            |       |        |        |    |   |
|---------------------|----|------|------|------------|-------|--------|--------|----|---|
| 4-17D-45 BTR        | 17 | 040S | 050W | 4301350687 | 18517 | Indian | Indian | OW | P |
| 5-6D-45 BTR         | 6  | 040S | 050W | 4301350688 | 18726 | Indian | Indian | OW | P |
| 7-7D-45 BTR         | 7  | 040S | 050W | 4301350689 | 18380 | Indian | Indian | OW | P |
| 14-10D-45 BTR       | 10 | 040S | 050W | 4301350754 | 18447 | Indian | Indian | OW | P |
| 14-9D-45 BTR        | 9  | 040S | 050W | 4301350755 | 18379 | Indian | Indian | OW | P |
| 13-16D-36 BTR       | 16 | 030S | 060W | 4301350757 | 18206 | Indian | State  | OW | P |
| 5-9D-36 BTR         | 9  | 030S | 060W | 4301350843 | 18381 | Indian | Fee    | OW | P |
| 16-5D-46 BTR        | 5  | 040S | 060W | 4301350844 | 18280 | Fee    | Fee    | OW | P |
| 5-27D-37 BTR        | 27 | 030S | 070W | 4301350847 | 18526 | Indian | Fee    | OW | P |
| 7-4D-45 BTR         | 4  | 040S | 050W | 4301350884 | 18562 | Indian | Indian | OW | P |
| 2-16D-45 BTR        | 16 | 040S | 050W | 4301350899 | 18619 | Indian | Indian | OW | P |
| 16-10D-45 BTR       | 10 | 040S | 050W | 4301350902 | 18725 | Indian | Indian | OW | P |
| 5-2D-36 BTR         | 2  | 030S | 060W | 4301350913 | 18886 | Indian | Fee    | OW | P |
| 13H-27-36 BTR       | 27 | 030S | 060W | 4301350918 | 18445 | Indian | State  | OW | P |
| 8-16D-46 BTR        | 16 | 040S | 060W | 4301350953 | 19027 | Indian | Indian | OW | P |
| 16-16D-46 BTR       | 16 | 040S | 060W | 4301350956 | 19028 | Indian | Indian | OW | P |
| 16-9D-45 BTR        | 9  | 040S | 050W | 4301350962 | 18662 | Indian | Indian | OW | P |
| 14-31D-36 BTR       | 31 | 030S | 060W | 4301350973 | 18524 | Indian | Fee    | OW | P |
| 5-10D-36 BTR        | 10 | 030S | 060W | 4301350978 | 18989 | Indian | Fee    | OW | P |
| 1-32D-36 BTR        | 32 | 030S | 060W | 4301350979 | 18648 | Indian | Fee    | OW | P |
| 16-12D-36 BTR       | 12 | 030S | 060W | 4301350980 | 18748 | Indian | Fee    | OW | P |
| 2-18D-45 BTR        | 18 | 040S | 050W | 4301350991 | 18776 | Indian | Indian | OW | P |
| 3-1-46 BTR          | 1  | 040S | 060W | 4301351017 | 18777 | Indian | Fee    | OW | P |
| 10-5-45 BTR         | 5  | 040S | 050W | 4301351062 | 18724 | Indian | Indian | OW | P |
| 12-4D-45 BTR        | 4  | 040S | 050W | 4301351063 | 18813 | Indian | Indian | OW | P |
| 1-10D-45 BTR        | 10 | 040S | 050W | 4301351064 | 18966 | Indian | Indian | OW | P |
| 16-2D-46 BTR        | 2  | 040S | 060W | 4301351079 | 18830 | Indian | Indian | OW | P |
| 9H-4-45 BTR         | 4  | 040S | 050W | 4301351092 | 18814 | Indian | Indian | OW | P |
| 12-17-45 BTR        | 17 | 040S | 050W | 4301351097 | 18984 | Indian | Indian | OW | P |
| 5-9D-46 BTR         | 9  | 040S | 060W | 4301351109 | 19313 | Indian | Fee    | OW | P |
| 14-9D-36 BTR        | 9  | 030S | 060W | 4301351144 | 19004 | Indian | Fee    | OW | P |
| 5-31D-36 BTR        | 31 | 030S | 060W | 4301351146 | 18691 | Indian | Fee    | OW | P |
| 4-9D-45 BTR         | 9  | 040S | 050W | 4301351157 | 18883 | Indian | Indian | OW | P |
| 8-12D-46 BTR        | 12 | 040S | 060W | 4301351159 | 18911 | Indian | Indian | OW | P |
| LC TRIBAL 16-23D-47 | 23 | 040S | 070W | 4301351180 | 18617 | Indian | Indian | OW | P |
| 14-7D-45 BTR        | 7  | 040S | 050W | 4301351222 | 18949 | Indian | Indian | OW | P |
| 5-16D-45 BTR        | 16 | 040S | 050W | 4301351223 | 18987 | Indian | Indian | OW | P |
| 4-5D-45 BTR         | 5  | 040S | 050W | 4301351242 | 18882 | Indian | Indian | OW | P |
| LC TRIBAL 16H-19-45 | 19 | 040S | 050W | 4301351278 | 18627 | Indian | Indian | OW | P |
| LC TRIBAL 13-19D-45 | 19 | 040S | 050W | 4301351280 | 18628 | Indian | Indian | OW | P |
| LC TRIBAL 5-30D-45  | 30 | 040S | 050W | 4301351281 | 19448 | Indian | Indian | OW | P |

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|                     |    |      |      |            |       |        |        |    |    |
|---------------------|----|------|------|------------|-------|--------|--------|----|----|
| LC TRIBAL 15-24D-46 | 24 | 040S | 060W | 4301351283 | 18626 | Indian | Indian | OW | P  |
| LC TRIBAL 13H-24-46 | 19 | 040S | 050W | 4301351289 | 18629 | Indian | Indian | OW | P  |
| 7-16-47 BTR         | 16 | 040S | 070W | 4301351296 | 18950 | Indian | Fee    | OW | P  |
| 14-18D-45 BTR       | 18 | 040S | 050W | 4301351313 | 19005 | Indian | Indian | OW | P  |
| LC TRIBAL 16-30D-46 | 30 | 040S | 060W | 4301351320 | 19006 | Indian | Indian | OW | P  |
| LC TRIBAL 5-20D-45  | 20 | 040S | 050W | 4301351331 | 19449 | Indian | Indian | OW | P  |
| 11-8D-46 BTR        | 8  | 040S | 060W | 4301351336 | 19314 | Indian | Indian | OW | P  |
| 5-7D-45 BTR         | 7  | 040S | 050W | 4301351350 | 18951 | Indian | Indian | OW | P  |
| 7-5-35 BTR          | 5  | 030S | 050W | 4301351599 | 19078 | Indian | Fee    | OW | P  |
| 13-5D-35 BTR        | 5  | 030S | 050W | 4301351600 | 18996 | Indian | Fee    | OW | P  |
| 11-5D-35 BTR        | 5  | 030S | 050W | 4301351601 | 19061 | Fee    | Fee    | OW | P  |
| 15-5D-35 BTR        | 5  | 030S | 050W | 4301351602 | 19062 | Fee    | Fee    | OW | P  |
| 9-5D-35 BTR         | 5  | 030S | 050W | 4301351609 | 19029 | Indian | Fee    | OW | P  |
| 3-5D-35 BTR         | 5  | 030S | 050W | 4301351638 | 19079 | Indian | Fee    | OW | P  |
| 7-8-46 BTR          | 8  | 040S | 060W | 4301351702 | 19315 | Indian | Indian | OW | P  |
| 7-30-46 DLB         | 30 | 040S | 060W | 4301351703 | 18997 | Fee    | Indian | OW | P  |
| 3-13D-46 BTR        | 13 | 040S | 060W | 4301351718 | 18881 | Indian | Indian | OW | P  |
| 2-13D-46 BTR        | 13 | 040S | 060W | 4301351719 | 18885 | Indian | Indian | OW | P  |
| 12-12D-46 BTR       | 12 | 040S | 060W | 4301351720 | 18867 | Indian | Indian | OW | P  |
| 10-12D-46 BTR       | 12 | 040S | 060W | 4301351721 | 18856 | Indian | Indian | OW | P  |
| 11-11D-47 BTR       | 11 | 040S | 070W | 4301352091 | 19633 | Fee    | Fee    | OW | P  |
| 7-12D-47 BTR        | 12 | 040S | 070W | 4301352094 | 19600 | Indian | Fee    | OW | P  |
| 5-12D-47 BTR        | 12 | 040S | 070W | 4301352095 | 19634 | Indian | Fee    | OW | P  |
| 14-33D-35 BTR       | 33 | 030S | 050W | 4301352162 | 19450 | Indian | Fee    | OW | P  |
| 16-33D-35 BTR       | 33 | 030S | 050W | 4301352163 | 19451 | Indian | Fee    | OW | P  |
| 14-22-46 DLB        | 22 | 040S | 060W | 4301333660 | 17604 | Indian | Indian | D  | PA |
| 13H-31-36 BTR       | 31 | 030S | 060W | 4301350465 | 18485 | Indian | Fee    | OW | PA |
| 16X-23D-36 BTR      | 23 | 030S | 060W | 4301350623 | 18007 | Indian | State  | OW | PA |
| 8-6-45 BTR          | 6  | 040S | 050W | 4301350900 | 18561 | Indian | Indian | OW | PA |
| 13-13-36 BTR        | 13 | 030S | 060W | 4301350919 | 18364 | Indian | Fee    | OW | PA |
| 7-28-46 DLB         | 28 | 040S | 060W | 4301333569 | 16460 | Indian | Indian | OW | S  |
| 5-21-36 BTR         | 21 | 030S | 060W | 4301333641 | 16674 | Indian | Fee    | GW | S  |
| 13-26-36 BTR        | 26 | 030S | 060W | 4301333980 | 17569 | Indian | Fee    | OW | S  |
| 14-1-46 BTR         | 1  | 040S | 060W | 4301334113 | 18516 | Indian | Indian | OW | S  |
| 16-21-36 BTR        | 21 | 030S | 060W | 4301334130 | 17721 | Indian | Fee    | OW | S  |
| 14-21-36 BTR        | 21 | 030S | 060W | 4301334131 | 18006 | Indian | Fee    | OW | S  |
| 7-16-36 BTR         | 16 | 030S | 060W | 4301334133 | 17834 | Indian | Fee    | OW | S  |
| 1-30-36 BTR         | 30 | 030S | 060W | 4301334134 | 17905 | Indian | Fee    | OW | S  |
| 16-30-36 BTR        | 30 | 030S | 060W | 4301334135 | 18005 | Indian | Fee    | OW | S  |
| 3-23-36 BTR         | 23 | 030S | 060W | 4301334137 | 17860 | Indian | Fee    | OW | S  |
| 16-16-36 BTR        | 16 | 030S | 060W | 4301334138 | 17666 | Indian | Fee    | OW | S  |

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|---------------------------|----|------|------|------------|-------|--------|--------|----|----|
| 4-26-36 BTR               | 26 | 030S | 060W | 4301334139 | 17620 | Fee    | Fee    | OW | S  |
| 9-11-36 BTR               | 11 | 030S | 060W | 4301334276 | 17451 | Indian | Fee    | OW | S  |
| 3-36-36 BTR               | 36 | 030S | 060W | 4301350398 | 17955 | Indian | Fee    | OW | S  |
| 7-10-36 BTR               | 10 | 030S | 060W | 4301350437 | 18052 | Indian | Fee    | OW | S  |
| 16-12D-46 BTR             | 12 | 040S | 060W | 4301350467 | 18051 | Indian | Indian | OW | S  |
| 13H-13-46 BTR             | 13 | 040S | 060W | 4301350468 | 18208 | Indian | Indian | OW | S  |
| 13-12-46 BTR              | 12 | 040S | 060W | 4301350469 | 18233 | Indian | Indian | OW | S  |
| 14-8D-36 BTR              | 8  | 030S | 060W | 4301350612 | 18163 | Indian | Fee    | OW | S  |
| 14-7D-36 BTR              | 7  | 030S | 060W | 4301350613 | 18330 | Indian | Fee    | OW | S  |
| 16-9-36 BTR               | 9  | 030S | 060W | 4301350645 | 18078 | Indian | Fee    | OW | S  |
| 7-27-37 BTR               | 27 | 030S | 070W | 4301350647 | 18090 | Indian | Fee    | OW | S  |
| 16-12D-37 BTR             | 12 | 030S | 070W | 4301350785 | 18446 | Indian | Fee    | OW | S  |
| 14-21D-37 BTR             | 21 | 030S | 070W | 4301350859 | 18548 | Indian | Fee    | OW | S  |
| 10-18D-36 BTR             | 18 | 030S | 060W | 4301350915 | 18884 | Indian | Fee    | OW | S  |
| 5-27D-36                  | 27 | 030S | 060W | 4301350917 | 18482 | Indian | State  | OW | S  |
| 10-36D-36 BTR             | 36 | 030S | 060W | 4301351005 | 18523 | Indian | Fee    | OW | S  |
| 14-6D-45 BTR              | 6  | 040S | 050W | 4301351158 | 18967 | Indian | Indian | OW | S  |
| 5H-1-46 BTR UTELAND BUTTE | 6  | 040S | 050W | 4301351215 | 18728 | Indian | Indian | OW | S  |
| 5H-1-46 BTR WASATCH       | 6  | 040S | 050W | 4301351216 | 18727 | Indian | Indian | OW | S  |
| 1-25D-36 BTR              | 25 | 030S | 060W | 4301351294 | 18798 | Indian | Fee    | OW | S  |
| 5-5D-35 BTR               | 5  | 030S | 050W | 4301351605 | 19055 | Indian | Fee    | OW | S  |
| 16-23-36 BTR              | 23 | 030S | 060W | 4301333971 | 17182 | Indian | Fee    | OW | TA |
| LC TRIBAL 14-23D-47       | 23 | 040S | 070W | 4301334022 | 18616 | Indian | Indian | OW | TA |
| 5-32D-36 BTR              | 32 | 030S | 060W | 4301350756 | 18328 | Indian | Fee    | OW | TA |



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone:(801) 683-4245  
Fax:(801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR:

RIG II, LLC

N4055

3. ADDRESS OF OPERATOR:

1582 West 2600 South

CITY Wood Cross

STATE UT

ZIP 84087

PHONE NUMBER:

(801) 683-4245

4. LOCATION OF WELL

FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

11/1/2016

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC

1582 West 2600 South

Woods Cross, Utah 84087-0298

801-683-4245

(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165

Duane Zavala

NAME (PLEASE PRINT)

Duane Zavala

SIGNATURE

Senior Vice President -

EH&S, Government and Regulatory Affairs

RIG II, LLC

Jesse McSwain

NAME (PLEASE PRINT)

Jesse McSwain

SIGNATURE

Manager

NAME (PLEASE PRINT) Jesse McSwain

TITLE Manager

SIGNATURE

Jesse McSwain

DATE

10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

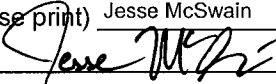
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

|   |   |
|---|---|
| <b>Well name:</b>                               | (See attached list)   |
| <b>API number:</b>                              |   |
| <b>Location:</b>                                | Qtr-Qtr:                      Section:                      Township:                      Range: |
| <b>Company that filed original application:</b> | Bill Barrett Corporation  |
| <b>Date original permit was issued:</b>         |   |
| <b>Company that permit was issued to:</b>       | Bill Barrett Corporation  |

| Check one                           | Desired Action:   |
|-------------------------------------|---|
|                                     |   |
|                                     | <b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>  |
|                                     | The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application. |
| <input checked="" type="checkbox"/> | <b>Transfer approved Application for Permit to Drill to new operator</b>  |
|                                     | The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.   |

| Following is a checklist of some items related to the application, which should be verified.  | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| If located on private land, has the ownership changed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/> If so, has the surface agreement been updated?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?                           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Has the approved source of water for drilling changed?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

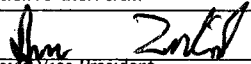
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

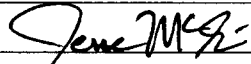
|  |   |
|--|---|
| Well Name and Number<br><b>6-32-36 BTR SWD</b>   | API Number<br><b>4301350921</b>   |
| Location of Well<br><br>Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b><br><br>QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b> | Field or Unit Name<br><b>CEDAR RIM</b><br><br>Lease Designation and Number<br><b>2OG0005608</b> |

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

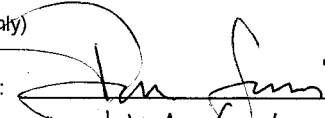
**CURRENT OPERATOR**

|   |   |
|---|---|
| Company: <u>BILL BARRETT CORPORATION</u>            | Name: <u>Duane Zavadii</u>  |
| Address: <u>1099 18th Street Ste 2300</u>           | Signature: <u></u> |
| city <u>DENVER</u> state <u>CO</u> zip <u>80202</u> | Title: <u>Senior Vice President -</u>   |
| Phone: <u>(303) 293-9100</u>                        | Title: <u>EH&amp;S, Government and Regulatory Affairs</u>   |
| Comments:   | Date: <u>10/20/16</u>   |

**NEW OPERATOR**

|   |   |
|---|---|
| Company: <u>RIG II, LLC</u>                             | Name: <u>Jesse McSwain</u>  |
| Address: <u>1582 West 2600 South</u>                    | Signature: <u></u> |
| city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u> | Title: <u>Manager</u>   |
| Phone: <u>(801) 683-4245</u>                            | Date: <u>10/20/16</u>   |
| Comments:   |   |

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

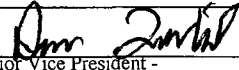
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

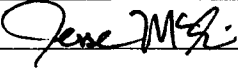
|   |  |
|---|--|
| Well Name and Number<br><b>16-6D-46 BTR SWD</b>   | API Number<br><b>4301350781</b>  |
| Location of Well<br><br>Footage : <b>0200 FSL 0099 FEL</b> County : <b>DUCHESNE</b><br><br>QQ, Section, Township, Range: <b>SESE    6    4S    6W</b> State : <b>UTAH</b> | Field or Unit Name<br><b>ALTAMONT</b><br><br>Lease Designation and Number<br><b>2OG0005608</b> |

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016


**CURRENT OPERATOR**

|   |   |
|---|---|
| Company: <u>BILL BARRETT CORPORATION</u>            | Name: <u>Duane Zavadi</u>   |
| Address: <u>1099 18th Street Ste 2300</u>           | Signature: <u></u> |
| city <u>DENVER</u> state <u>CO</u> zip <u>80202</u> | Title: <u>Senior Vice President -</u>   |
| Phone: <u>(303) 293-9100</u>                        | Title: <u>EH&amp;S, Government and Regulatory Affairs</u>   |
| Comments:   | Date: <u>10/20/16</u>   |

**NEW OPERATOR**

|   |   |
|---|---|
| Company: <u>RIG II, LLC</u>                             | Name: <u>Jesse McSwain</u>  |
| Address: <u>1582 West 2600 South</u>                    | Signature: <u></u> |
| city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u> | Title: <u>Manager</u>   |
| Phone: <u>(801) 683-4245</u>                            | Date: <u>10/20/16</u>   |
| Comments:   |   |

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

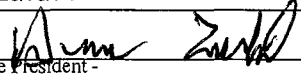
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

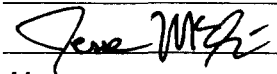
|  |   |
|--|---|
| Well Name and Number<br><b>SWD 9-36 BTR</b>  | API Number<br><b>4301350646</b>   |
| Location of Well<br><br>Footage : <b>0539 FSL 0704 FEL</b><br><br>County : <b>DUCHESNE</b><br><br>QQ, Section, Township, Range: <b>SESE 9 3S 6W</b><br><br>State : <b>UTAH</b> | Field or Unit Name<br><b>CEDAR RIM</b><br><br>Lease Designation and Number<br><b>2OG0005608</b> |

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

|   |   |
|---|---|
| Company: <u>BILL BARRETT CORPORATION</u>            | Name: <u>Duane Zavadi</u>   |
| Address: <u>1099 18th Street Ste 2300</u>           | Signature: <u></u> |
| city <u>DENVER</u> state <u>CO</u> zip <u>80202</u> | Title: <u>Senior Vice President -<br/>EH&amp;S, Government and Regulatory Affairs</u>                 |
| Phone: <u>(303) 293-9100</u>                        | Date: <u>10/20/16</u>   |
| Comments:   |   |

**NEW OPERATOR**

|   |  |
|---|--|
| Company: <u>RIG II, LLC</u>                             | Name: <u>Jesse McSwain</u>   |
| Address: <u>1582 West 2600 South</u>                    | Signature: <u></u> |
| city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u> | Title: <u>Manager</u>  |
| Phone: <u>(801) 683-4245</u>                            | Date: <u>10/20/16</u>  |
| Comments:   |  |

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*